

STANDARD PLANS SUMMARY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-032-1(K010)	2014	ADD.2	51

STANDARD PLAN NO.	TITLE	DATE
B-01	NOTES & MISCELLANEOUS DETAILS	05/31/07
B-03	BACKFILL DETAILS AT EARTH RETAINING STRUCTURES	05/31/07
B-12	PRESTRESSED CONCRETE PILES & COMPRESSION SPLICE CAN DETAILS	05/31/07
B-12A	PRESTRESSED CONCRETE PILES, PILE & COMPRESSION SPLICE CAN DETAILS & NOTES	05/31/07
B-12B	PILE INTERACTION DIAGRAM	05/31/07
B-13	PRESTRESSED CONCRETE PILE BUILD-UP DETAILS	05/31/07

D-01	CATTLE GATE	05/31/07
D-02	CHAIN LINK FENCE WITH TOPRAIL	05/31/07
D-03	CHAIN LINK FENCE WITHOUT TOPRAIL	05/31/07
D-04	WIRE FENCE WITH METAL POSTS	05/31/07
D-05 ●	TYPICAL DETAILS OF CURBS AND/OR GUTTERS	05/31/07
D-06	TYPICAL DETAIL OF REINFORCED CONCRETE DROP DRIVEWAY	05/31/07
D-07	CENTERLINE AND REFERENCE SURVEY MONUMENTS	05/31/07
D-08	STREET SURVEY MONUMENT	05/31/07
D-15 ●	CONCRETE SIDEWALK	05/31/07
D-16	P.C.C. BUS PAD	05/31/07
D-17	P.C.C. BUS PAD	05/31/07
D-18	P.C.C. PAVEMENT LAYOUT	05/31/07
D-19	P.C.C. PAVEMENT W/ PERMEABLE BASE JOINT DETAILS	05/31/07
D-20	P.C.C. PAVEMENT W/ PERMEABLE BASE JOINT DETAILS	05/31/07
D-21	P.C.C. LONGITUDINAL JOINT DETAILS	05/31/07
D-22	P.C.C. CONNECTION TO CURBS AND GUTTERS	05/31/07
D-23	JOINTS	05/31/07

L-01	TREE PLANTING	08/16/06
L-02	TREE PLANTING	08/16/06
L-03	TREE TRANSPLANTING	08/16/06
L-04	PALM PLANTING	08/16/06
L-05	SHRUB PLANTING	08/16/06
L-06	LANDSCAPE DETAILS	08/16/06
L-07	LANDSCAPE DETAILS	08/16/06
L-08	LANDSCAPE DETAILS	08/16/06
L-09	LANDSCAPE DETAILS	08/16/06
L-10	LANDSCAPE DETAILS	08/16/06
L-11	PLANTING NOTES	08/16/06
L-12	IRRIGATION DETAILS	08/16/06
L-13	IRRIGATION DETAILS	08/16/06
L-14	IRRIGATION DETAILS	08/16/06
L-15	IRRIGATION DETAILS	08/16/06
L-16	IRRIGATION DETAILS	08/16/06
L-17	IRRIGATION DETAILS	08/16/06
L-18	IRRIGATION DETAILS	08/16/06
L-19	IRRIGATION DETAILS	08/16/06
L-20	IRRIGATION DETAILS	08/16/06
L-21	IRRIGATION DETAILS	08/16/06
L-22	IRRIGATION DETAILS	08/16/06
L-23	IRRIGATION DETAILS	08/16/06
L-24	IRRIGATION NOTES	08/16/06

STANDARD PLAN NO.	TITLE	DATE
H-01A	TYPE A CATCH BASIN	05/31/07
H-01B	TYPE B CATCH BASIN	05/31/07
H-01C	TYPE C CATCH BASIN	05/31/07
H-01D	TYPE D CATCH BASIN	05/31/07
H-01E	CATCH BASIN SECTIONS	05/31/07
H-02A	TYPE A1 CATCH BASIN	05/31/07
H-02B	TYPE B2 CATCH BASIN	05/31/07
H-02C	TYPE C1 CATCH BASIN	05/31/07
H-02D	TYPE D1 CATCH BASIN	05/31/07
H-02E	CATCH BASIN SECTION	05/31/07
H-03	TYPE A,B, AND C STORM DRAIN MANHOLE	05/31/07
H-04	TYPE D STORM DRAIN MANHOLE	05/31/07
H-05	TYPICAL REINFORCING DETAILS FOR DRAINAGE STRUCTURES	05/31/07
H-06	TYPICAL REINFORCING DETAILS FOR DRAINAGE STRUCTURES	05/31/07
H-07	CATCH BASIN AND MANHOLE CASTINGS	05/31/07
H-08	TYPE 1A-9 AND 1A-9P GRATED DROP INLET	05/31/07
H-09	TYPE 2A-9 AND 2A-9P GRATED DROP INLET	05/31/07
H-10	TYPE A-9 OR A-9P STEEL FRAMES	05/31/07
H-11	TYPE A-9 AND A-9P STEEL GRATES	05/31/07
H-12	TYPE 61614P AND 1211214P GRATED DROP INLET	05/31/07
H-13	TYPE 61616P AND 1211216P GRATED DROP INLET	05/31/07
H-14	TYPE 61214P GRATED DROP INLET	05/31/07
H-15	TYPE 1211214, 1211214P, 1211216, 1211216P STEEL FRAME AND GRATES	05/31/07
H-16	TYPE 61614, 61614P, 61616, 61616P STEEL FRAME AND GRATES	05/31/07
H-17	TYPE 61214 STEEL FRAMES AND GRATES	05/31/07
H-18	TYPE 61214P STEEL GRATES	05/31/07
H-19	TYPE 61614B STEEL FRAME AND GRATES	05/31/07
H-20	CEMENT RUBBLE MASONRY STRUCTURES	05/31/07
H-21	CONCRETE AND CEMENT RUBBLE MASONRY STRUCTURES	05/31/07
H-22	INLET/OUTLET STRUCTURE	05/31/07
H-23	INLET/OUTLET STRUCTURE	05/31/07
H-24	FLARED END SECTION FOR CULVERTS	05/31/07
H-25	FLARED END SECTION FOR CULVERTS	05/31/07
H-26	CONCRETE SPILLWAY INLET	05/31/07
H-27	CAP COUPLING DETAILS STANDARD JOINT	05/31/07
H-28	REINFORCED CONCRETE COLLAR & JACKET	05/31/07
H-29	UNDERDRAIN CLEANOUT STEEL FRAME AND COVER	05/31/07
H-30	UNDERDRAIN CONNECTION TO DRAINAGE STRUCTURE	05/31/07

TE-01 ●	SIGN HEIGHT AND LOCATION	07/11/08
TE-1A ●	SIGN INSTALLATION	07/11/08
TE-02A	GALVANIZED FLANGED CHANNEL SIGN POST MOUNTING	05/31/07
TE-02B	GALVANIZED FLANGED CHANNEL SIGN POST MOUNTING	05/31/07
TE-02C	GALVANIZED FLANGED CHANNEL SIGN POST MOUNTING	05/31/07
TE-03A ●	GALVANIZED SQUARE TUBE SIGN POST MOUNTING	05/31/07
TE-03B ●	GALVANIZED SQUARE TUBE SIGN POST MOUNTING	05/31/07
TE-04 ●	REGULATORY SIGNS	07/11/08
TE-05 ●	WARNING SIGNS	07/11/08
TE-06 ●	MISCELLANEOUS SIGNS	07/11/08
TE-07 ●	CONSTRUCTION SIGNS	07/11/08
TE-08	MISCELLANEOUS INTERSECTION SIGNS	07/11/08

STANDARD PLAN NO.	TITLE	DATE
TE-09 ●	BIKE ROUTE SIGN & SUPPLEMENTARY PLATES	07/11/08
TE-10	INTERSTATE ROUTE MARKER	07/11/08
TE-11 ●	STATE ROUTE MARKER AND AUXILIARY MARKERS	07/11/08
TE-12 ●	STATE ROUTE MARKER AND BORDER DETAIL FOR GUIDE SIGNS	07/11/08
TE-12A ●	ROUTE SIGN ASSEMBLIES	07/11/08
TE-13 ●	STREET NAME SIGN ON MAST ARM	07/11/08
TE-14 ●	MISCELLANEOUS REFLECTOR MARKERS	07/11/08
TE-15 ●	OBJECT MARKERS	07/11/08
TE-16 ●	MILE POSTS	07/11/08
TE-17A	CANTILEVER OVERHEAD SIGN ELEVATION & DETAILS	05/31/07
TE-17B	CENTILEVER SIGN FRAME DETAIL AND SECTION	05/31/07
TE-17C	CANTILEVER SIGN FRAME DETAIL	05/31/07
TE-17D	CENTILEVER SIGN FRAME SECTION	05/31/07
TE-17E	CENTILEVER SIGN FRAME DETAILS	05/31/07
TE-18A	TWO POST OVERHEAD SIGN FRAME ELEVATIONS	05/31/07
TE-18B	TWO POST SIGN FRAMING PLAN SECTION	05/31/07
TE-18C	TWO POST SIGN FRAMING SECTIONS AND DETAILS	05/31/07
TE-18D	TWO POST SIGN FRAME DETAILS	05/31/07
TE-18E	TWO POST SIGN FRAME DETAILS	05/31/07
TE-19A	OVERHEAD SIGN FRAMING SCHEDULE	05/31/07
TE-19B	SIGN POST DRILLED SHAFT FOUNDATION	05/31/07
TE-19C	SPREAD FOOTING	05/31/07
TE-19D	SIGN FRAME FOUNDATION SCHEDULE	05/31/07
TE-19D.1	SIGN FRAME FOUNDATION SCHEDULE	05/31/07
TE-19D.2	SIGN FRAME FOUNDATION SCHEDULE	05/31/07
TE-19D.3	SIGN FRAME FOUNDATION SCHEDULE	05/31/07
TE-19D.4	SIGN FRAME FOUNDATION SCHEDULE	05/31/07
TE-19D.5	SIGN FRAME FOUNDATION SCHEDULE	05/31/07
TE-19E	ANCHORAGE DETAILS	05/31/07
TE-19F	ANCHORAGE DETAILS	05/31/07
TE-19G	MISCELLANEOUS SIGN FRAME DETAILS	05/31/07
TE-19H	LUMINAIRE WALKWAY SUPPORT	05/31/07
TE-19J	FIXED MESSAGE LUMINAIRE SUPPORT	05/31/07
TE-19K	MISCELLANEOUS SIGN DETAILS	05/31/07
TE-19L	MISCELLANEOUS SIGN DETAILS	05/31/07
TE-19M	MISCELLANEOUS SIGN FRAME DETAILS	05/31/07
TE-20	SUPPORTS FOR GROUND MOUNTED GUIDE SIGN	05/31/07
TE-20A	SUPPORTS FOR GROUND MOUNTED GUIDE SIGN	05/31/07
TE-20B	SUPPORTS FOR GROUND MOUNTED GUIDE SIGN	05/31/07
TE-20C	SUPPORTS FOR GROUND MOUNTED GUIDE SIGN	05/31/07
TE-21A	SIGN BREAKAWAY MOUNTS	05/31/07
TE-21B	SIGN BREAKAWAY MOUNTS	05/31/07
TE-22	LAMINATED ALUMINUM SIGN PANELS (OVERHEAD)	05/31/07
TE-23	LAMINATED ALUMINUM SIGN PANELS (GROUND MOUNTED)	07/11/08
TE-24	SOLID ALUMINUM EXTRUDED SIGN PANEL AND ACCESSORY DETAILS	05/31/07
TE-25	GUIDE SIGNS LUMINAIRE MOUNTINGS	05/31/07
TE-26 ●	RAISED PAVEMENT MARKERS AND STRIPING	07/11/08
TE-27 ●	RAISED PAVEMENT MARKERS AND STRIPING	07/11/08
TE-28	ENTRANCE AND EXIT PAVEMENT MARKINGS	07/11/08
TE-28A	ENTRANCE AND EXIT PAVEMENT MARKINGS	07/11/08
TE-28A ●	MISCELLANEOUS PAVEMENT MARKINGS	07/11/08
TE-29 ●	PAVEMENT ARROWS AND SYMBOLS	07/11/08
TE-30	PAVEMENT ALPHABETS, NUMBERS & SYMBOLS	07/11/08

STANDARD PLAN NO.	TITLE	DATE
TE-31 ●	PAVEMENT ALPHABETS, NUMBERS & SYMBOLS	07/11/08
TE-32 ●	TYPE I & II TRAFFIC SIGNAL SYSTEM MISC. DETAILS	05/31/07
TE-33	TYPE II TRAFFIC SIGNAL SYSTEM	08/16/06
TE-33A.1	TYPE II TRAFFIC SIGNAL STANDARD	05/31/07
TE-33A.2	TYPE II TRAFFIC SIGNAL STANDARD	05/31/07
TE-34 ●	LOOP DETECTOR DETAILS	07/11/08
TE-35 ●	LOOP DETECTORS & DUCT DETAILS	07/11/08
TE-36	TRAFFIC SIGNAL DETAILS	07/11/08
TE-37	PULLBOX & COVER DETAILS	07/11/08
TE-37A	TYPE "A" TRAFFIC PULLBOX	05/31/07
TE-37B	TYPE "A" TRAFFIC PULLBOX REINFORCING	05/31/07
TE-37C	TYPE "B" TRAFFIC PULLBOX	05/31/07
TE-37D	TYPE "B" TRAFFIC PULLBOX REINFORCING	05/31/07
TE-37E	TYPE "B" TRAFFIC PULLBOX FOUNDATION	05/31/07
TE-37F	TYPE "C" TRAFFIC PULLBOX	05/31/07
TE-37G	TYPE "C" TRAFFIC PULLBOX REINFORCING	05/31/07
TE-37H	TYPE "C" TRAFFIC PULLBOX FOUNDATION	05/31/07
TE-37J	TRAFFIC PULLBOX COVER AND DETAILS	05/31/07
TE-38	TYPE III TRAFFIC SIGNAL STANDARD	05/31/07
TE-38A.1	TYPE III TRAFFIC SIGNAL STANDARD	05/31/07
TE-38A.2	TYPE III TRAFFIC SIGNAL STANDARD	05/31/07
TE-39	METAL GUARDRAIL CONNECTION TO CONCRETE BARRIER	07/11/08
TE-40	CONCRETE BARRIER TRANSITION	05/31/07
TE-40A	CONCRETE BARRIER TRANSITION SECTIONS	05/31/07
TE-41	GUARDRAIL TYPE 4 (RIGID BARRIER)	05/31/07
TE-42	PORTABLE CONCRETE BARRIER	05/31/07
TE-43	PORTABLE CONCRETE BARRIER	05/31/07
TE-44	GUARDRAIL TYPE 4 MISCELLANEOUS DETAILS	07/11/08
TE-45	BARRICADES	07/11/08
TE-46	DELINEATION & PAVEMENT MARKINGS AT NARROW BRIDGES	07/11/08
TE-47	HIGHWAY LIGHT STANDARD	05/31/07

NOTE:  
STANDARD PLANS APPLICABLE TO THIS PROJECT ARE INDICATED BY A " ● " NEXT TO THE STANDARD PLAN NO.  
(FOR EXAMPLE: D-07 ● )

12/8/14 Added TE-15, TE-34 & TE-35

DATE	REVISION
	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION <b>STANDARD PLANS SUMMARY</b> <b>MAIN STREET RESURFACING</b> <b>High Street to Kaahumanu Avenue and</b> <b>KAAHUMANU AVENUE RESURFACING</b> <b>Main Street to Hobron Avenue</b> <b>Federal-Aid Project No. NH-032-1(K010)</b> Date: July, 2014 SHEET No. 1 OF 1 SHEETS

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	TRACED BY	
	DESIGNED BY	
	QUANTITIES BY	
NOTE BOOK	Checked by	
	Checked by	



GENERAL NOTES

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-032-1(010)	2014	ADD.3	51

- ORIGINAL PLAN

DATE

10/2

SURVEY PLOTTED BY

TRACED BY

DESIGNED BY

NOTED BY

QUANTITIES BY

CHECKED BY

10/2

10/2

10/2

10/2

10/2

10/2
1.

The Project begins on Main Street at Sta. 8+06.93 in the vicinity of High Street and proceeds towards Hobron Avenue at Sta. 4+29.26. The scope of work for this project consists of reconstructing, cold planing and resurfacing of existing pavement; upgrading guardrail end treatments; installing pavement markings; removal, replacement and installation of signage; cleaning existing culverts and drainage structures; application of joint stablizer; and any incidental work related to the overlay of new pavements.

2.

The Contractor's attention is directed to Sub-Section 104.04 Maintenance of Traffic, 107.13 Public Convenience and Safety, 107.21 Contractors Responsibility for Utility Property and Services, Section 645 Traffic Control of the Standard Specification and the Special Provisions.

3.

Dressing of shoulder shall consist of clearing, grubbing, grading, reshaping and compacting the unpaved shoulders with suitable excavated material as shown on the plans and/or as directed by the Engineer. This work shall be considered incidental to Asphalt Concrete Pavement, Mix IV.

4.

The Contractor shall notify the Engineer in writing, two (2) weeks prior to starting paving operations.

5.

All construction signs shall be left in place until all construction items have been completed. Contractor shall obtain prior approval from the Engineer to remove construction signs.

6.

The Contractor shall not leave more than 1½" drop-off at the edge of pavement, at the end of each work day. Whenever the Contractor leaves a 1½" drop-off, the Contractor shall install delineators and barricades along the edge of the pavement. This work which includes furnishing, installing, cleaning, maintaining correct placement and removing when required, shall be considered incidental to various contract items.

7.

The Contractor shall provide for vehicular and pedestrian access to and from all existing sideroads, driveways and walkways at all times.

8.

The exact locations and limits or areas to be filled with leveling course, reconstructed and cold planed shall be determined in the field by the Engineer. All holes, depressions and wheel ruts shall be filled and compacted with Asphalt Concrete Pavement, Mix No. IV prior to resurfacing. This work will be paid for under Asphalt Concrete Pavement, Mix No. IV.

9.

Existing signs that will be removed and replaced shall be carefully dissassembled and neatly organized and secured and delivered to the Maui District Baseyard. Payment for removal, storage and delivery shall be considered incidental to various pay items.

10.

All saw cutting work shall be considered incidental to excavation for reconstruction of weakened pavement areas.

11.

The Contractor shall remove and dispose of all existing raised pavement markers, traffic tapes, and epoxy adhesives prior to overlaying of Asphalt Concrete. This work shall be considered incidental to Asphalt Concrete Pavement, Mix No. IV and will not be paid for separately.

12.

Prior to resurfacing, the existing surface shall be cleaned as described in Section 310 of the Standard Specifications and as amended. Payment shall be considered incidental to the various contract items.

13.

As shown on the plans or directed by the Engineer, a smooth riding transition shall be provided at the beginning and end of the project, at side streets, driveways, between all pavement areas used by public traffic during each construction phase, and between transition of construction phases. Payment for this work shall be made under Item No. 401.0100, A.C. Pavement, Mix No. IV.

14.

All lanes shall be open to traffic during the morning peak hours from 6:30 a.m. to 8:30 a.m. and during afternoon peak hours from 3:30 p.m. to 6:00 p.m. and off work hours. See Special Provisions Section 645 (Work Zone Traffic Control).

15.

The existence and location of underground utilities, manholes, monuments, pullboxes and structures as shown on the plans are from the latest available data but accuracy is not guaranteed. The encountering of other obstacles during the course of the work may be possible. The Contractor shall be held liable for any damages incurred to the existing facilities as a result of his operations or shall not be disturbed during cold planing and/or pavement reconstruction. All damaged portions shall be replaced on accordance with the Standards and Specifications of the State and/or the affected utility company. The Contractor shall contact Hawaii One Call Center for existence and location of underground utilities.

16.

The exact limits of areas to be reconstructed shall be determined in the field by the Engineer. The depth of excavation for reconstruction shall be the reconstruction thickness minus the overlay thickness as designated on the plans. The excavated areas shall be reconstructed with Plant Mix Glassphalt Concrete Base Course prior to resurfacing.

17.

The Contractor shall reference all existing pavement markings prior to resurfacing. Final placement of the new pavement markings shall be as approved by the Engineer. Payment for this work shall be considered incidental to new pavement markers and striping. See Standard Detail, TE 30.

18.

All existing and new A.C. curbs shall be painted white. This work shall be considered incidental to Asphalt Concrete Pavement, Mix No. IV and will not be paid for separately.

19.

Existing drainage system will be functional at all times during construction. The Contractor is to furnish materials, equipment, labor, tools and incidents necessary to accomplish maintenance of flow, the cost of which shall be considered incidental to the various contract items.

20.

All manhole frames and covers affected by the resurfacing shall be adjusted to the new grades as directed by the Engineer.

21.

Cold planed connections shall be constructed at all limits of resurfacing, including the beginning and end of project, connecting approaches, side streets along A.C. curbs, around GDI's and driveways as shown on the plans and/or as directed by the Engineer. Exact locations shall be determined in the field by the Engineer.

22.

All signs shall be of standard sizes unless specified. The sizing for each corresponding sign designation can be found in the Standard Plans. The intent here is to replace all existing signs with the same sign. The Contractor shall verify the sign sizes with the Engineer.

23.

At the end of each day's work and night's work, the Contractor shall remove all equipment and other obstructions to permit free and safe passage of public traffic.

24.

Contractor should use caution around existing utility structures. Replacement of utility structures shall be incidental to paving items.

25.

Night work will be avoided during the seabird fledging period, September 15 through December 15. If night time construction is to be performed during other times of the year, all lighting will be shielded and directed toward the ground to avoid attracting adult seabirds.

26.

The trimming of clearing of trees and shrubs taller than 15 feet will be avoided between June 1 and September 15 to avoid impacts to the Hawaiian hoary bat.

27.

To reduce impact to traffic during daylight hours, for all work that requires lane closures, the contractor shall perform night work between the hours of 8:00 p.m. and 6:00 a.m., except for work performed between Kahului Beach Road and Hana Highway, where night work is only allowed between 9:30 p.m. and 5:30 a.m.
- Reconstruction Areas

Cold Planing Areas

Resurfacing Limits

Existing Edge of Pavement

Existing Edge of Shoulder

RM-3

RM-4

Existing Monument

Adjusted Monument

Existing Traffic Sign Wtih 1 Post

Existing Traffic Sign Wtih 2 Posts

New Traffic Sign Wtih 1 Post

New Traffic Sign Wtih 2 Posts

Existing Grated Drop Inlet

Existing Highway Lighting Standard

Existing Single Metal Guardrail

Existing Fence

Existing Storm Drain Manhole

Existing Power Pole

Existing Water Valve Box

Existing Fire Hydrant

Type II Object Marker Post
- 3

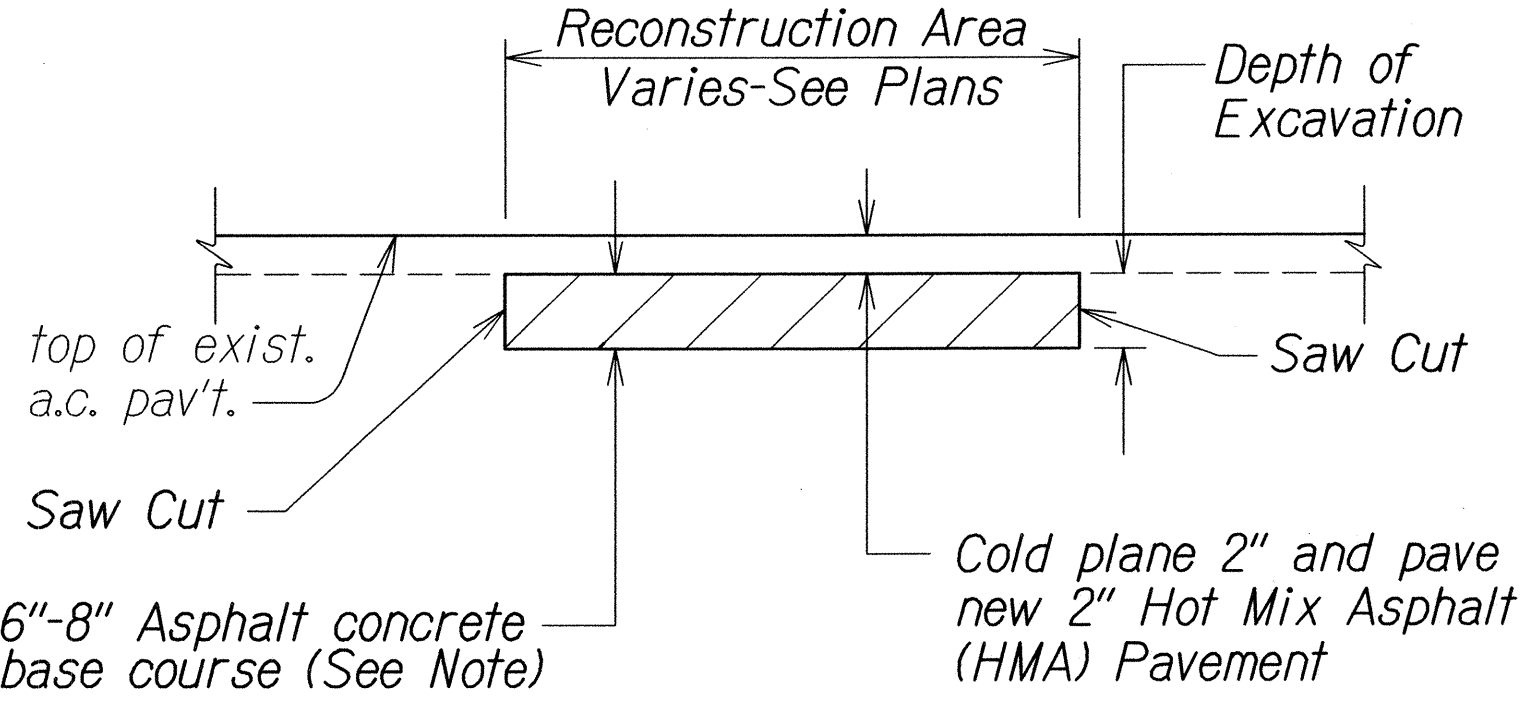
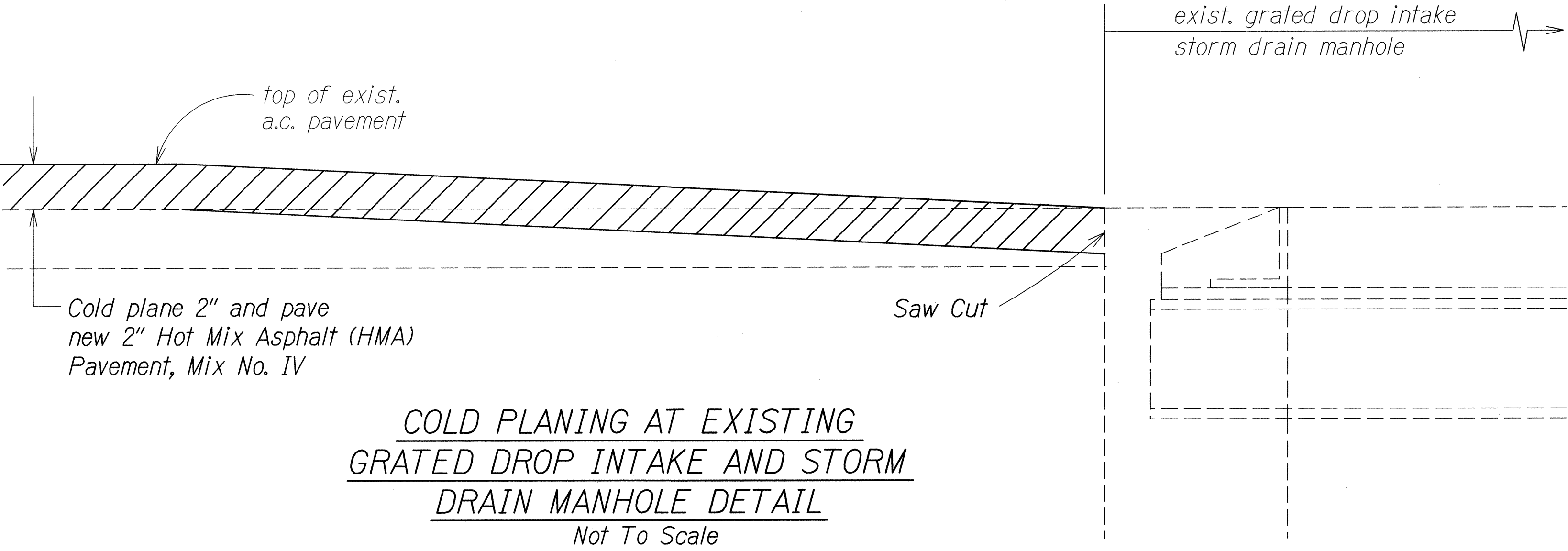
12/8/14

Revised Note  
Added note for night work

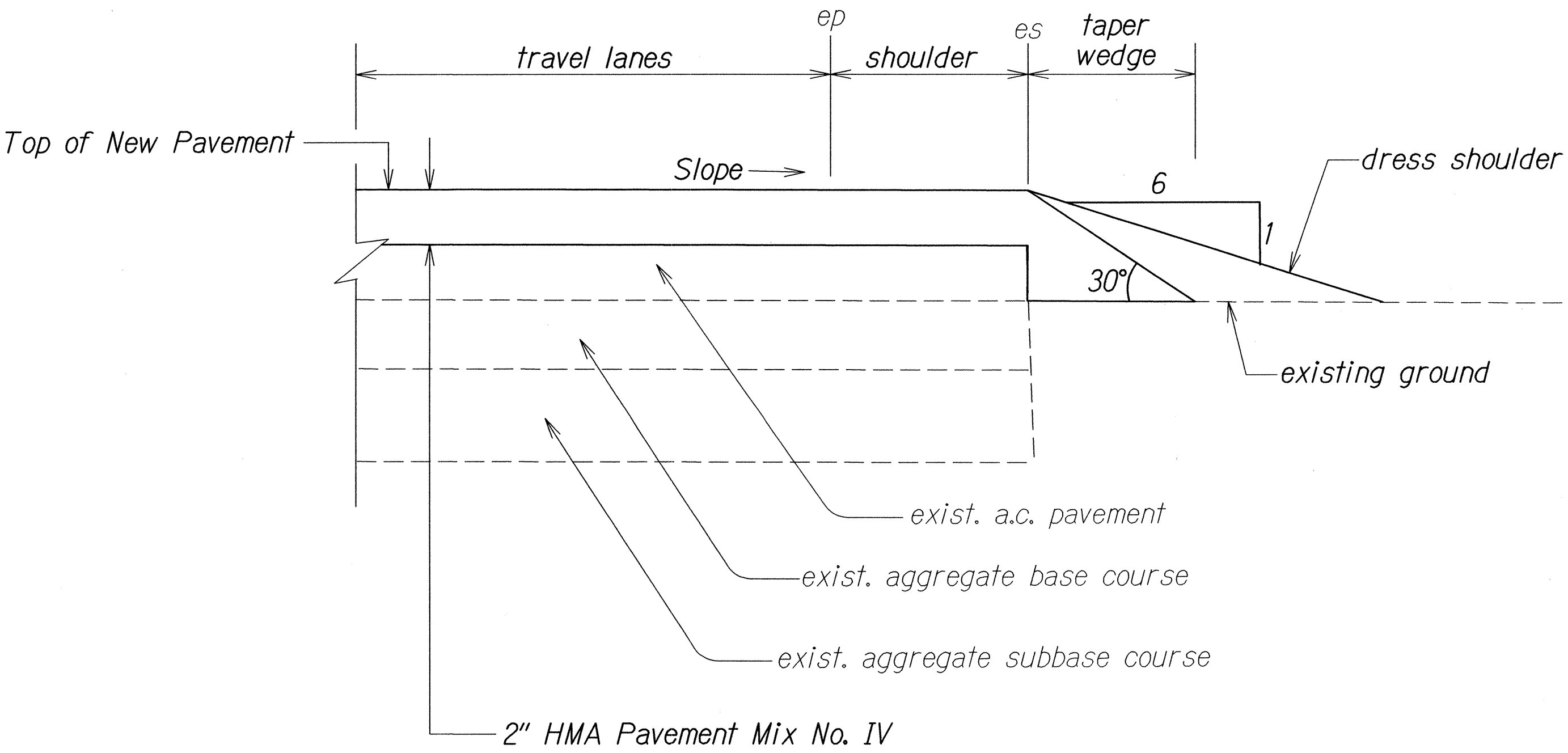
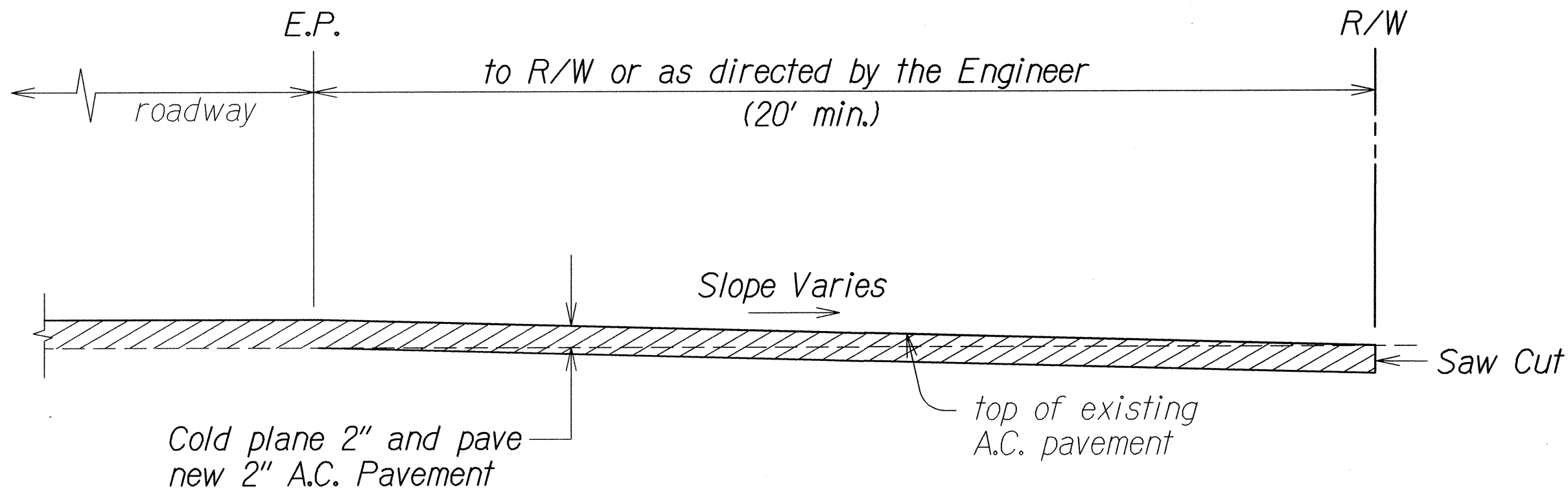
DATE

REVISION
- STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
GENERAL NOTES AND LEGEND  
MAIN STREET RESURFACING  
High Street to Kaahumanu Avenue and  
KAAHUMANU AVENUE RESURFACING  
Main Street to Hobron Avenue  
Federal-Aid Project No. NH-032-1(010)  
Date: July, 2014  
SHEET No. 1 OF 1 SHEETS

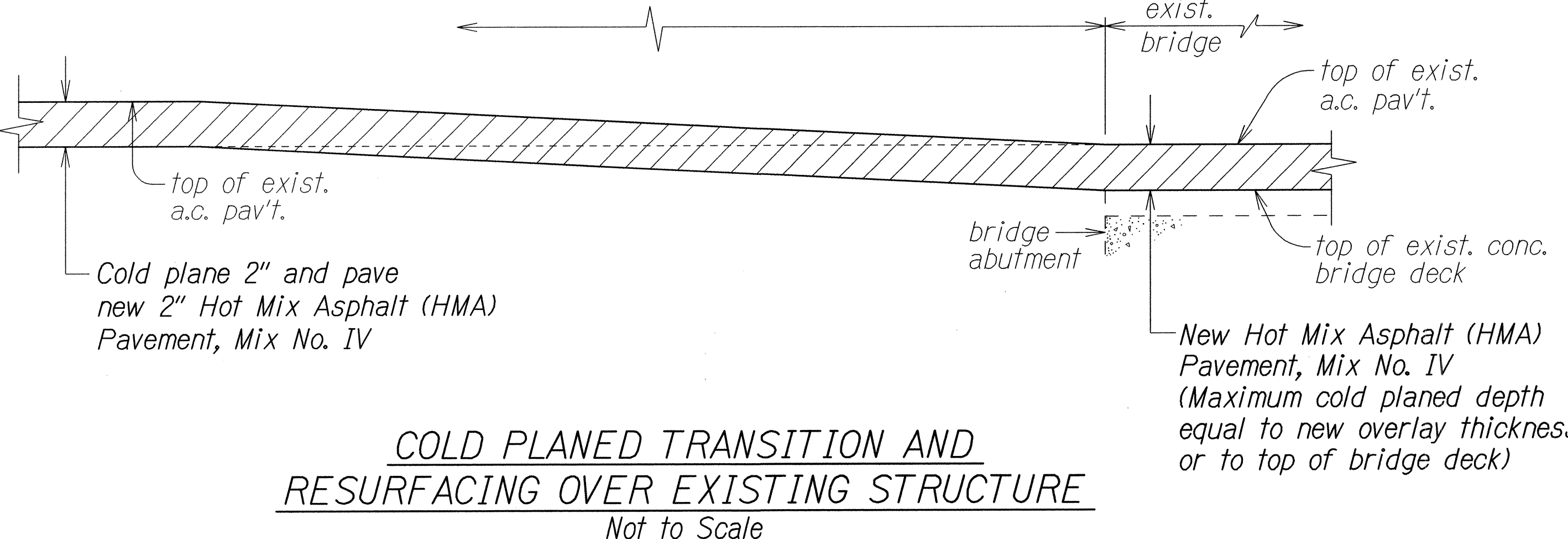
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-032-1(010)	2014	ADD.8	51



Note: Sta. 8+06± to 7+15± (MP 0-2.10), 7"; Sta. 7+15± to -1+50± (MP 2.10-2.74), 8"; Sta. -1+50± to 4+29± (MP 2.74-2.85), 6"



Note: Contractor shall mount a device directly on the paver screed extension to provide a 30° beveled shoulder edge.



TYPICAL PAVEMENT EDGE DETAIL (FOR OVERLAYING PROJECT)  
Not To Scale

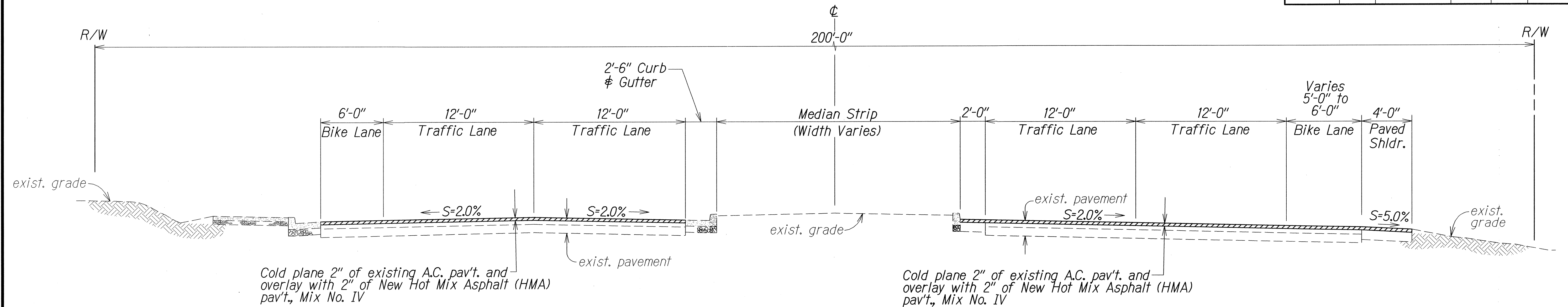
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
<b>TYPICAL SECTIONS &amp; DETAILS</b>	
MAIN STREET RESURFACING	
High Street to Kaahumanu Avenue and	
KAAHUMANU AVENUE RESURFACING	
Main Street to Hobron Avenue	
Federal-Aid Project No. NH-032-1(010)	
Scale: As Shown	Date: July, 2014
SHEET No. 2 OF 8 SHEETS	

DATE	REVISION
12/8/14	Revised Note to include Sta.

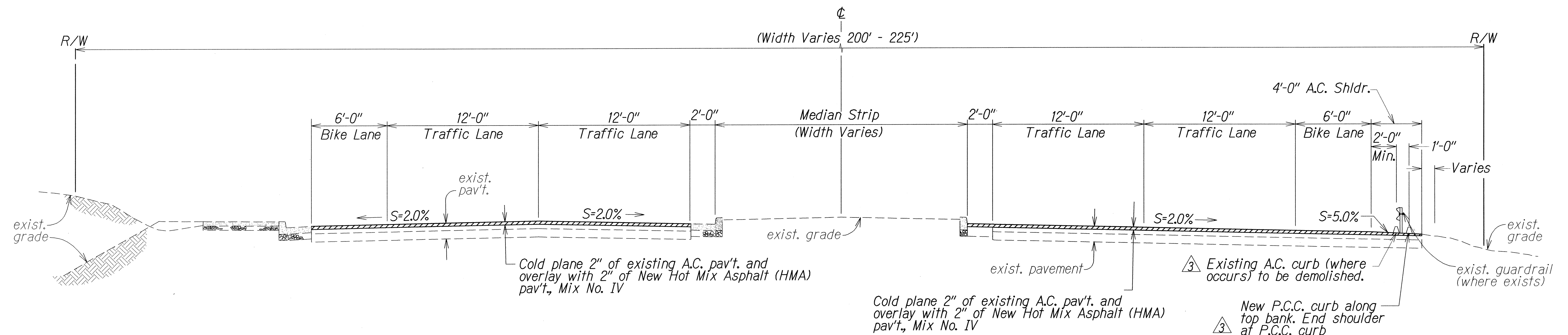
ORIGINAL PLAN	DATE
SURVEY BLANKET BY	9/12
DRAWN BY	
DESIGNED BY	ALEX HEDGON
CHECKED BY	
QUANTITIES BY	
NOTED BY	
REVISIONS	



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-032-1(010)	2014	ADD.11	51



TYPICAL SECTION - LUNALILO STREET TO MAUI LANI PARKWAY  
Scale: 1/4" = 1'-0"



TYPICAL SECTION - MAUI LANI PARKWAY TO KALO A AVENUE  
Scale: 1/4" = 1'-0"

ORIGINAL PLAN	DATE
NOTE BOOK	DESIGNED BY
QUANTITIES BY	CHECKED BY
DATE	

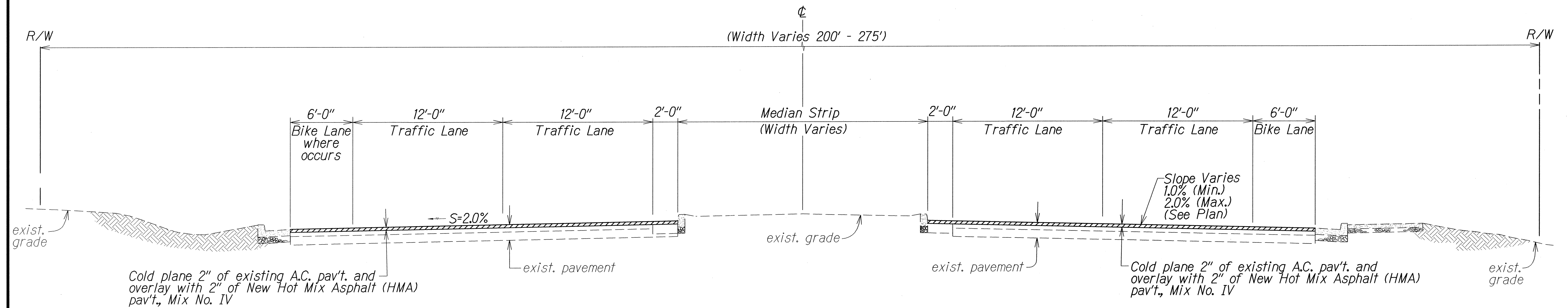
12/8/14 Show existing A.C. curb  
Changed new curb to P.C.C.

DATE REVISION

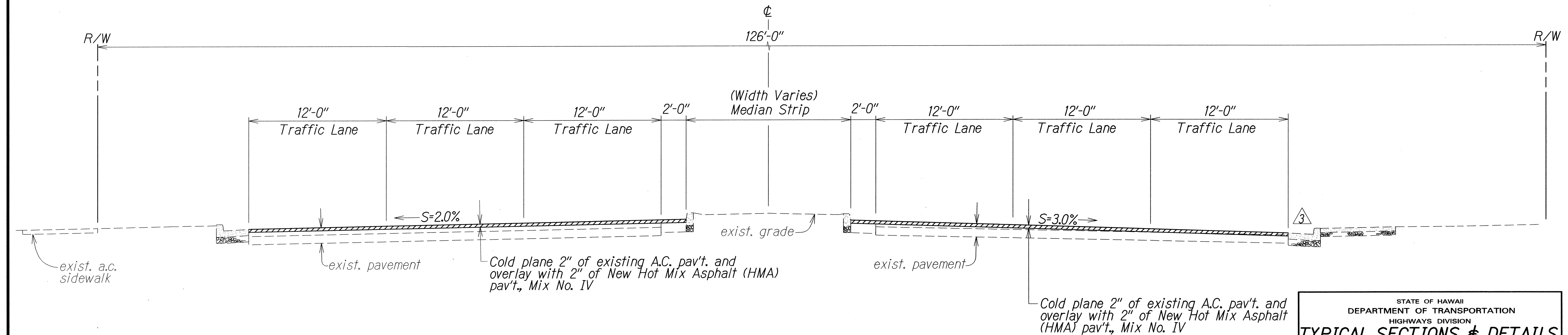
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
<b>TYPICAL SECTIONS &amp; DETAILS</b>	
MAIN STREET RESURFACING	
High Street to Kaahumanu Avenue and	
KAAHUMANU AVENUE RESURFACING	
Main Street to Hobron Avenue	
Federal-Aid Project No. NH-032-1(010)	
Scale: As Shown	Date: July, 2014
SHEET No. 5 OF 8 SHEETS	



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-032-1(010)	2014	ADDJ3	51



**TYPICAL SECTION - KAAHUMANU SHOPPING CENTER ENTRANCE TO KANE STREET**  
Scale: 1/4" = 1'-0"



**TYPICAL SECTION - KANE STREET TO PUUNENE AVENUE**  
Scale: 1/4" = 1'-0"

ORIGINAL PLAN	DATE
NOTED	DATE
DESIGNED BY	DATE
CHECKED BY	DATE
DATE	DATE

3	12/8/14	Removed line over gutter
DATE	REVISION	

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

TYPICAL SECTIONS & DETAILS

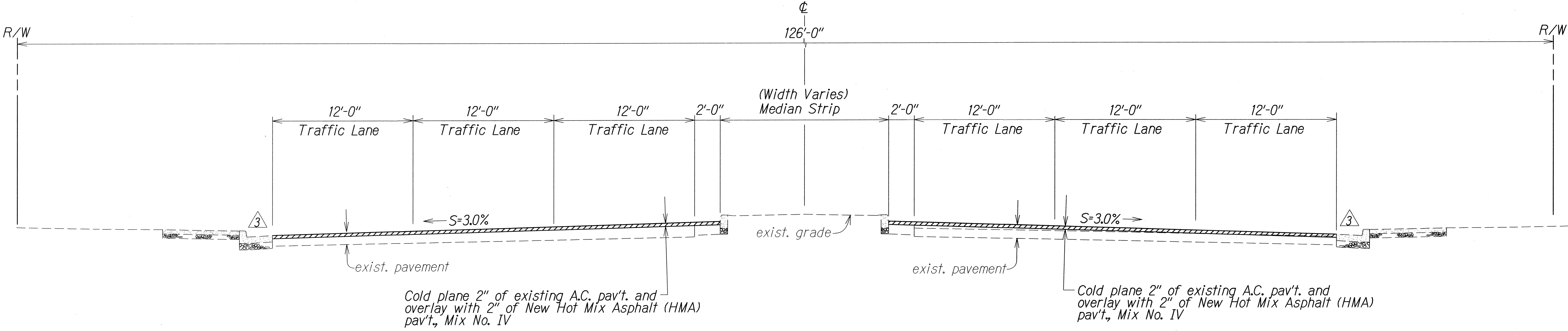
MAIN STREET RESURFACING  
*High Street to Kaahumanu Avenue and*  
KAAHUMANU AVENUE RESURFACING  
*Main Street to Hobron Avenue*  
Federal-Aid Project No. NH-032-1(010)

Scale: As Shown      Date: July, 2014

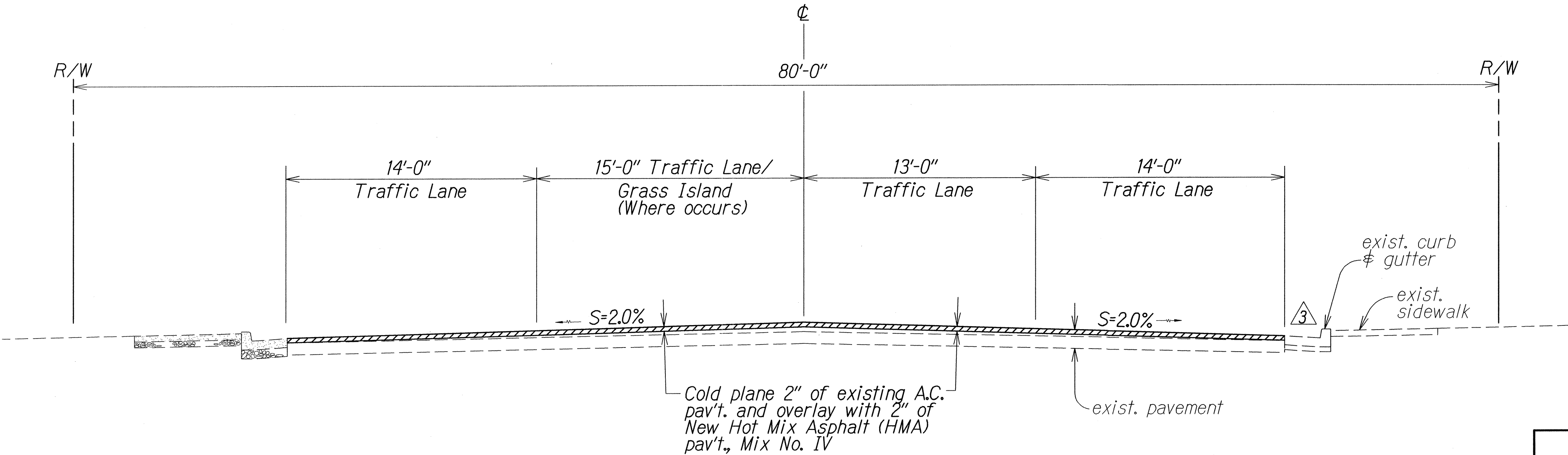
SHEET No. 7 OF 8 SHEETS



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-032-1(010)	2014	ADD.14	51



TYPICAL SECTION - PUUNENE AVENUE TO HANA HIGHWAY  
Scale: 1/4"= 1'-0"



TYPICAL SECTION - HANA HIGHWAY TO HOBRON AVENUE  
Scale: 1/4"= 1'-0"

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
<b>TYPICAL SECTIONS &amp; DETAILS</b>	
MAIN STREET RESURFACING	
High Street to Kaahumanu Avenue and	
KAAHUMANU AVENUE RESURFACING	
Main Street to Hobron Avenue	
Federal-Aid Project No. NH-032-1(010)	
Scale: As Shown	Date: July, 2014
SHEET No. 8 OF 8 SHEETS	

3	12/8/14	Removed line over gutter Removed pavement overlay over gutter
DATE	REVISION	



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-032-K(010)	2014	ADD.16	51

CURB RAMP AND SIDEWALK NOTES:

1. These typical details are intended as curb ramp guidelines for design and construction. These guidelines shall not replace site specific curb ramp plans.
2. A 2% maximum cross slope shall be maintained in the direction of pedestrian traffic.
3. Subject to field conditions, the Engineer shall determine the final location of curb ramps.
4. All pullboxes shall be installed away from the curb ramp and within the sidewalk/unpaved area to the maximum extent feasible.
5. Where necessary, existing pullboxes, handholes, manholes, etc. shall be adjusted to match curb ramp grade. Adjustments shall not be paid for separately but shall be considered incidental to the various curb ramp items unless indicated otherwise.
6. Transitions from ramps to gutters and roadways shall be flush.
7. Curb ramps and sidewalks shall be constructed to eliminate ponding to the maximum extent feasible.
8. The pedestrian push button shall meet operational and reach requirements of the American with Disabilities Act Accessibility Guidelines (ADAAG):

a) Forward Reach. The maximum height for forward reach shall be 48".

b) Side Reach. The maximum height for side reach shall be 48".

c) Operation. Controls and operating mechanisms shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. The force required to activate controls shall be no greater than 5 lbf.
9. The maximum slopes of adjoining gutters or road surface immediately fronting the curb ramp shall not exceed 5% for Type A, D and Combination ramps and 8.33% for Type B, C, and E ramps.
10. There shall be a 30"x48" level ground surface (2% max. cross slope, both directions) for a forward or side approach, as appropriate, to a pedestrian push button.
11. Construction joints are required to join curb ramps with sidewalks.
12. Unless otherwise noted, new gutters are required as shown.
13. All curb ramps shall be reinforced with 6x6 W1.4/W1.4 welded wire fabric.
14. Surface of sidewalks and curb ramps shall be firm, stable, and slip-resistant. This includes the surfaces of pullboxes, valve covers, manhole covers, etc.
15. Bed course material is required for curb ramps, sidewalks, and gutters.
16. All sidewalks shall provide a minimum clear width of 3'-0" (excluding curb) for pedestrian circulation. If this cannot be met, a minimum 32-inch clear width is allowed for a distance of 24-inches.
17. Passing spaces along new sidewalks with 5' clear width or less shall be provided at maximum 200' intervals as required by ADA guidelines. The passing area shall be a minimum 5' wide by 5' long as feasible.
18. If possible, install utility poles, fire hydrants, light poles, sign posts, pullboxes, etc. off of sidewalk but within the right-of-way.
19. Objects protruding from utility poles and walls adjacent to the sidewalks (i.e. wall mounted fire hydrants, telephones, meters on poles, etc.) shall be mounted to meet the current American with Disabilities Act Accessibility Guidelines (ADAAG) and will be subject to Engineer's approval.
20. If a curb ramp is not constructed according to the plans, the Contractor shall reconstruct the curb ramp at no cost to the State. Construction tolerance for Portland Cement Concrete shall be based on 1/4 inch per 10 ft. (±0.2%). Remedial measures will not be accepted.

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

tdl/usr2/traffic/std/curbramp/rampnote-r03-02-11.dgn  
R 03-02-11 TE-00 sht. 1 of 9

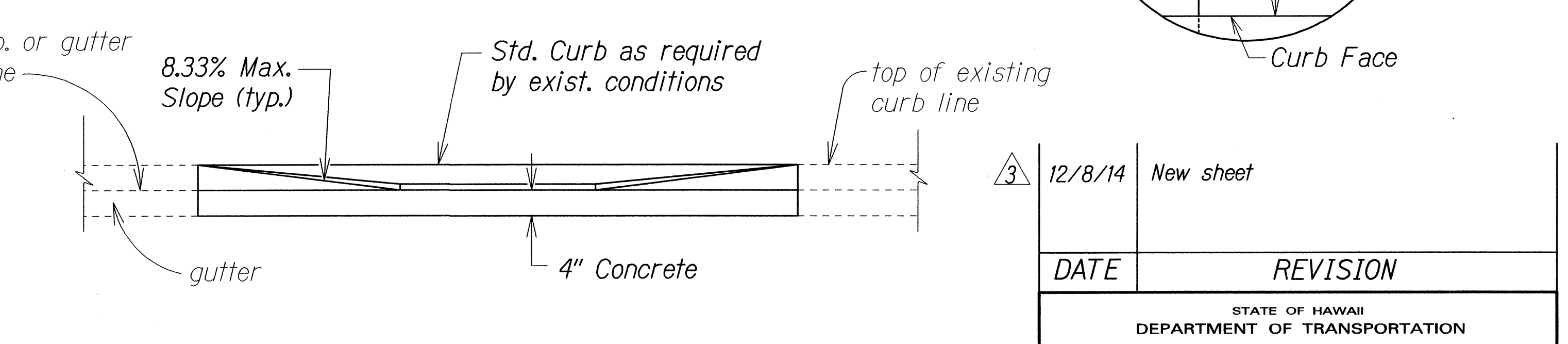
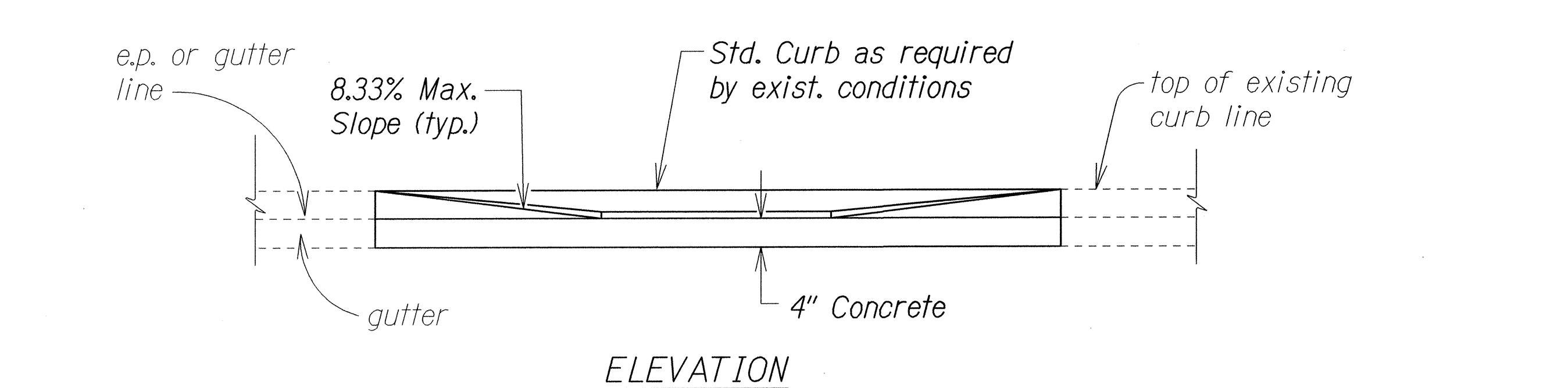
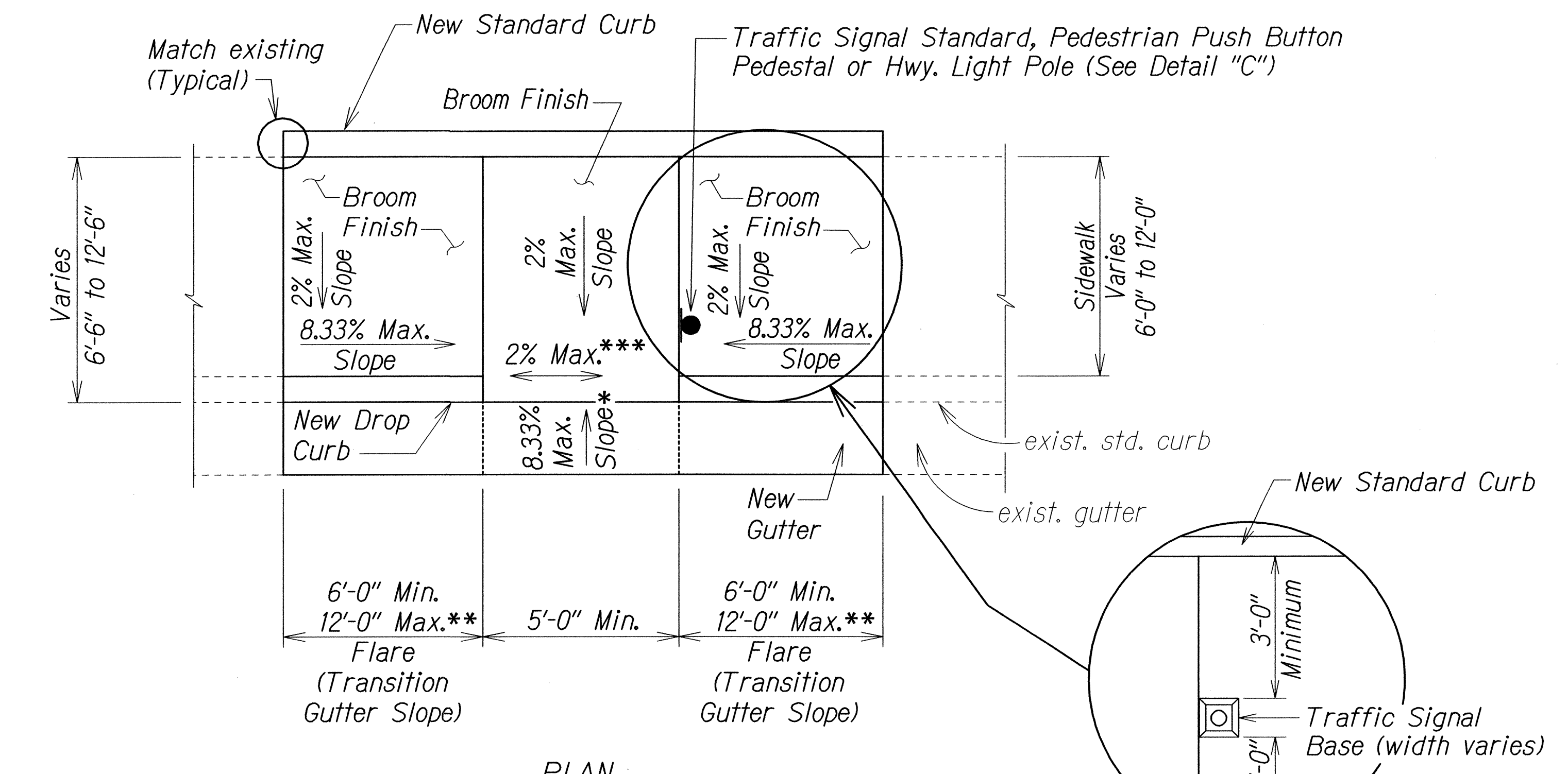
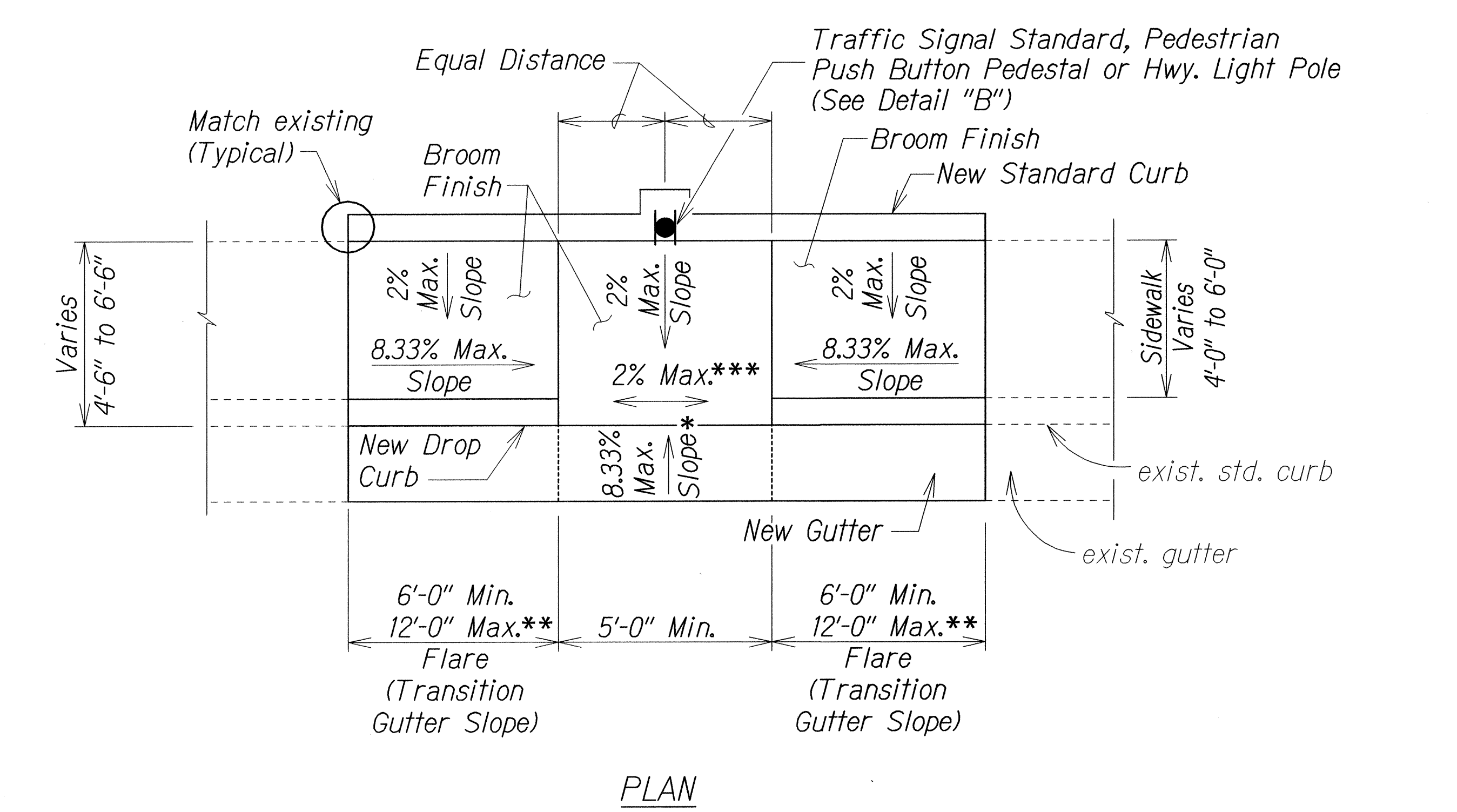
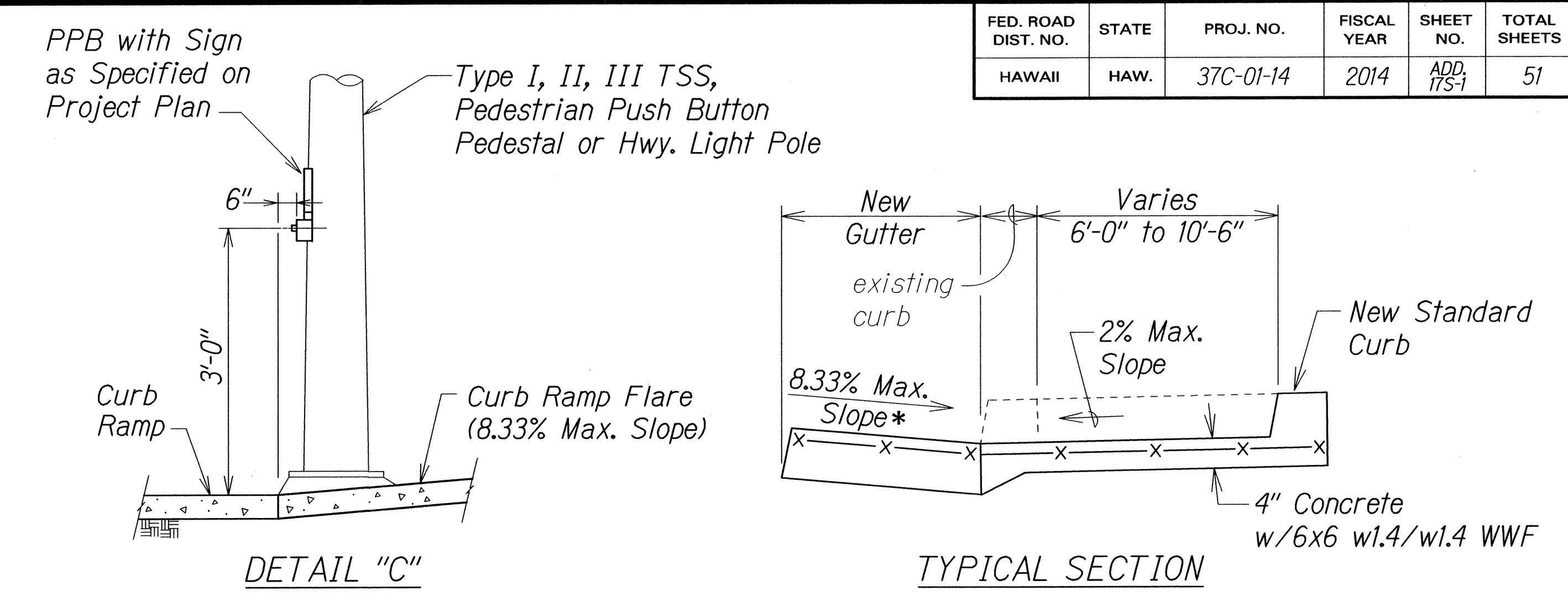
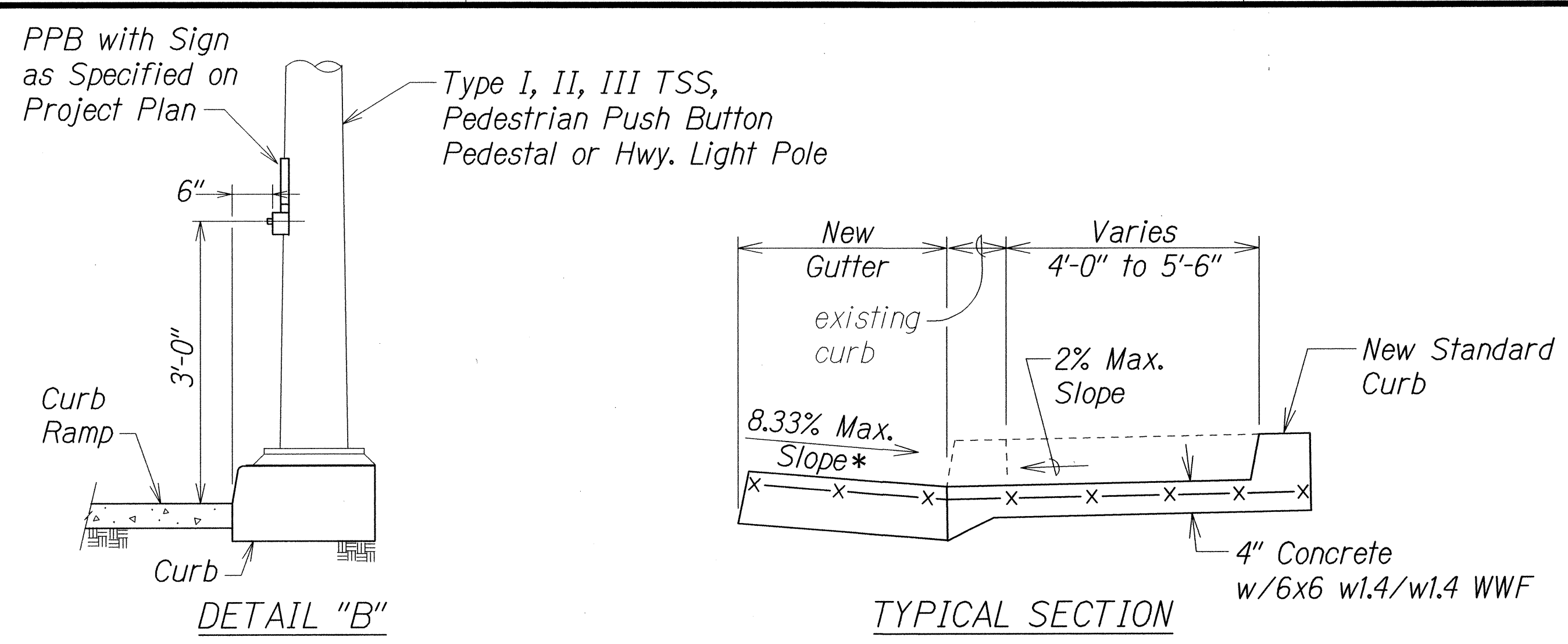
3	12/8/14	Removed detectable warning detail and notes
	DATE	REVISION
SHEET No. 1 OF 2 SHEETS		

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**CURB RAMP AND SIDEWALK NOTES**  
MAIN STREET RESURFACING  
High Street to Kaahumanu Avenue and  
KAAHUMANU AVENUE RESURFACING  
Main Street to Hobron Avenue  
Federal-Aid Project No. NH-032-K(010)  
Date: September, 2014



FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	37C-01-14	2014	ADD. 17S-1	51



**CURB RAMP - TYPE "B"**  
 SIDEWALK WIDTH 4'-0" OR GREATER  
 BUT LESS THAN 6'-0" WIDTH

**CURB RAMP - TYPE "B" MODIFIED**  
 SIDEWALK WIDTH 6'-0" OR GREATER  
 BUT LESS THAN 12'-0" WIDTH

\* See Curb Ramp and Sidewalk Note No. 9  
 \*\* The slope of the ramp shall take precedence over the length of the ramp. If the maximum slope of a ramp cannot be met within a length of 12 feet, then the slope of the ramp shall be set when the length of the ramp is set at the maximum of 12 feet.  
 \*\*\* If Roadway Slope >2% Conform to Roadway Slope and File Technical Infeasibility (TI) Statement

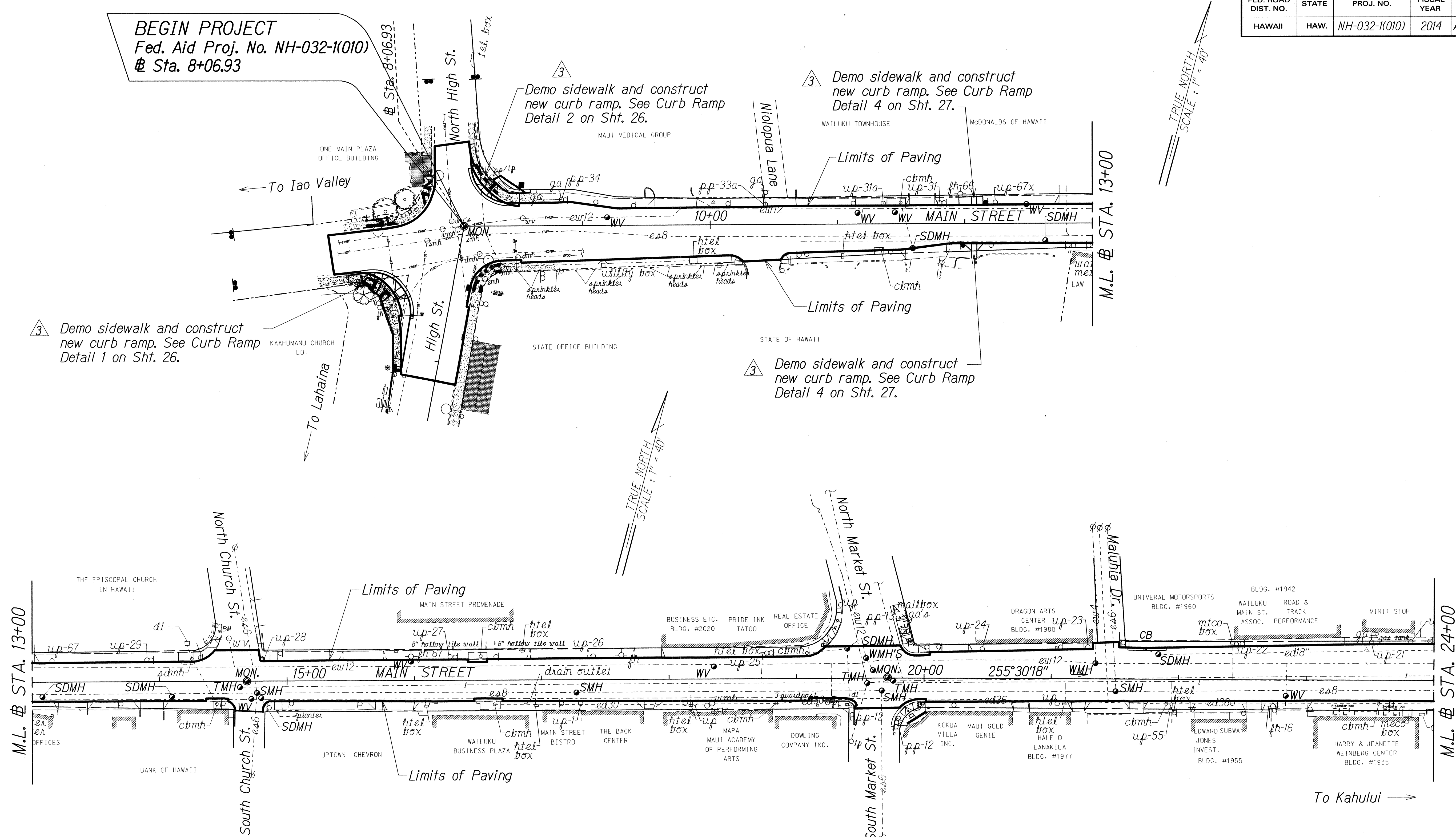
DATE	REVISION
12/8/14	New sheet
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION <b>CURB RAMP DETAILS</b> MAIN STREET RESURFACING High Street to Kaahumanu Avenue and KAAHUMANU AVENUE RESURFACING Main Street to Hobron Avenue Federal-Aid Project No. NH-032-1(010) Not to Scale Date: September, 2014	
SHEET No. 3 OF 3 SHEETS	

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

tdl/ustr2/traffic/std/curb/ramp/r12-06-06.dgn R12-06-06 TE-XX sh. 3 of 9



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-032-1(010)	2014	ADD.18	51



**BEGIN PROJECT**  
 Fed. Aid Proj. No. NH-032-1(010)  
 # Sta. 8+06.93

3 Demo sidewalk and construct new curb ramp. See Curb Ramp Detail 2 on Sht. 26.

3 Demo sidewalk and construct new curb ramp. See Curb Ramp Detail 4 on Sht. 27.

3 Demo sidewalk and construct new curb ramp. See Curb Ramp Detail 1 on Sht. 26.

3 Demo sidewalk and construct new curb ramp. See Curb Ramp Detail 4 on Sht. 27.

TRUE NORTH  
 SCALE: 1" = 40'

TRUE NORTH  
 SCALE: 1" = 40'

To Kahului →

ORIGINAL PLAN	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

3 12/8/14 Added curb ramp reference sheet no.

DATE REVISION

STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION  
**ROADWAY PLAN**  
**MAIN STREET RESURFACING**  
**High Street to Kaahumanu Avenue and**  
**KAAHUMANU AVENUE RESURFACING**  
**Main Street to Hobron Avenue**  
**Federal-Aid Project No. NH-032-1(010)**  
 Scale: 1" = 40' Date: July, 2014  
 SHEET No. 1 OF 8 SHEETS





CURVE DATA

MAIN STREET

New Crosswalk

341.92

342.50 T  
342.00 B

6.00

15.39

9.7%

2.0%

1.6%

341.80

341.88 T  
341.38 B

5.00

7.00

341.28 T  
340.78 B

6.00

340.68

New Crosswalk

340.66

6.00

10%

0.3%

5.00

341.14 T  
340.64 B

15.27

HIGH STREET

340.78

340.86

340.78

341.92

341.84

340.78

340.70

①

②

③

④

Sta. 7+29.37  
o/s 28.15

341.09 T  
340.59 B

340.96 T  
340.46 B

340.96

340.59

340.46

6.00

4.00

6.2%

2.0%

8.3%

Match existing

CURVE DATA

	1	2	3	4
Δ	32°28'03"	13°22'09"	32°28'03"	29°09'49"
R	30.00	30.00	30.00	30.00
T	8.74	3.52	8.74	7.80
C	16.77	6.98	16.77	15.11
Lc	17.00	7.00	17.00	15.27

CURB RAMP DETAIL 1

Scale: 1"= 5'

Match existing

CURVE DATA

CURB RAMP DETAIL 1  
Scale: 1"= 5'

$\Delta$	29.74	32.25	21.97
R	30.00	30.00	30.00
T	6.86	8.74	7.38
C	13.37	16.77	14.33
Lc	13.48	17.00	14.47

CURB RAMP DETAIL 2  
Scale: 1"= 5'

3	12/8/14	Removed note Removed detectable warning mats
	DATE	REVISION

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**CURB RAMP PLANS**

**MAIN STREET RESURFACING**  
*High Street to Kaahumanu Avenue and*  
**KAAHUMANU AVENUE RESURFACING**  
*Main Street to Hobron Avenue*  
**Federal-Aid Project No. NH-032-1(010)**

Scale: 1"= 5'                      Date: September, 2014

SHEET No. 1 OF 2 SHEETS

KAAHUMANU AVENUE

To Hana Hwy. →

51.45 T  
50.95 B

50.90

51.30 T  
50.80 B

51.23 T

1.3%

6.7%

1.8%

2%

2%

5.8%

1.8%

6.00

51.57 T  
51.07 C

51.42

51.35

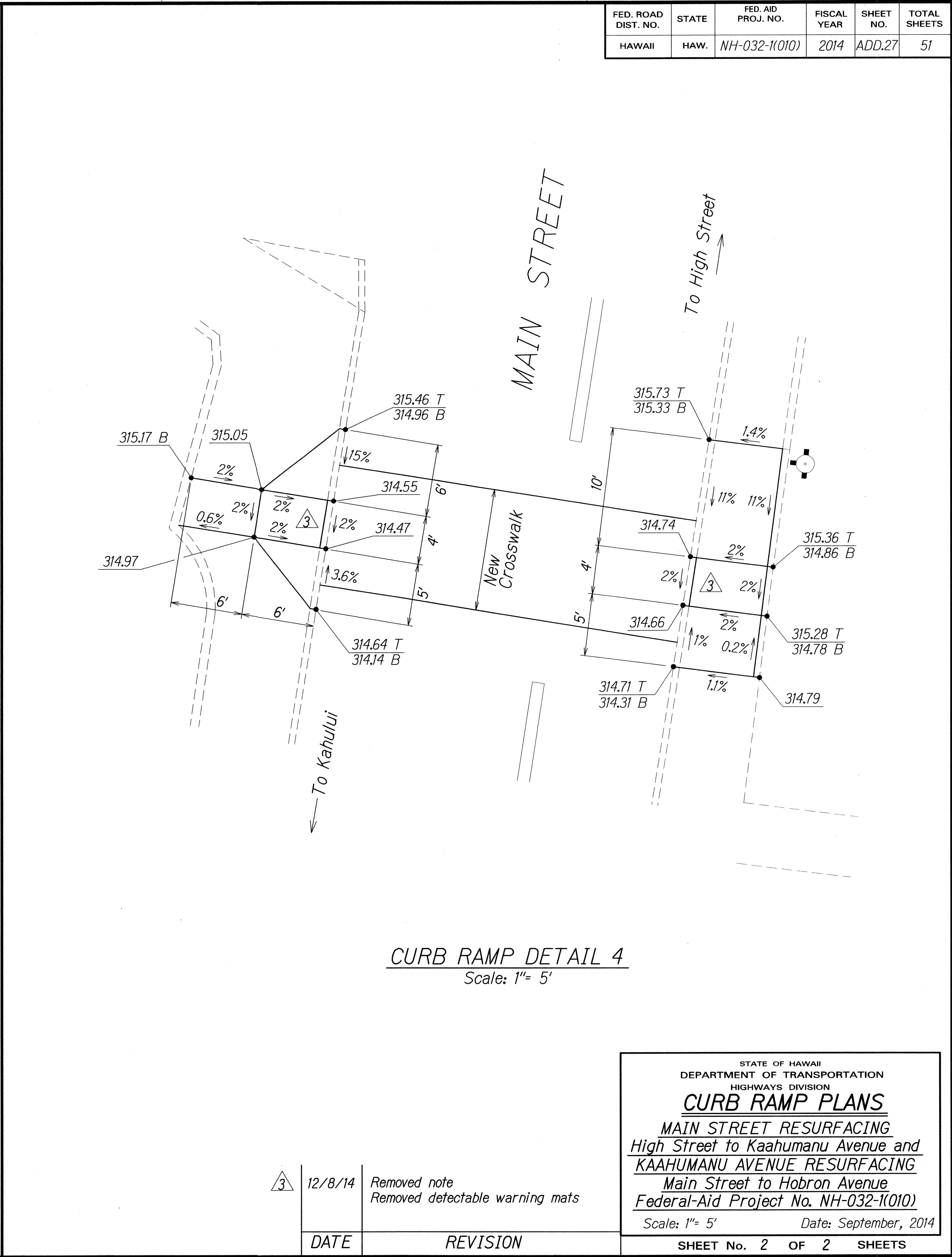
6"

4.00

6.00

4.00

CURB RAMP DETAIL 3  
Scale: 1"= 5'



3	12/8/14	Removed note Removed detectable warning mats
	DATE	REVISION

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**CURB RAMP PLANS**

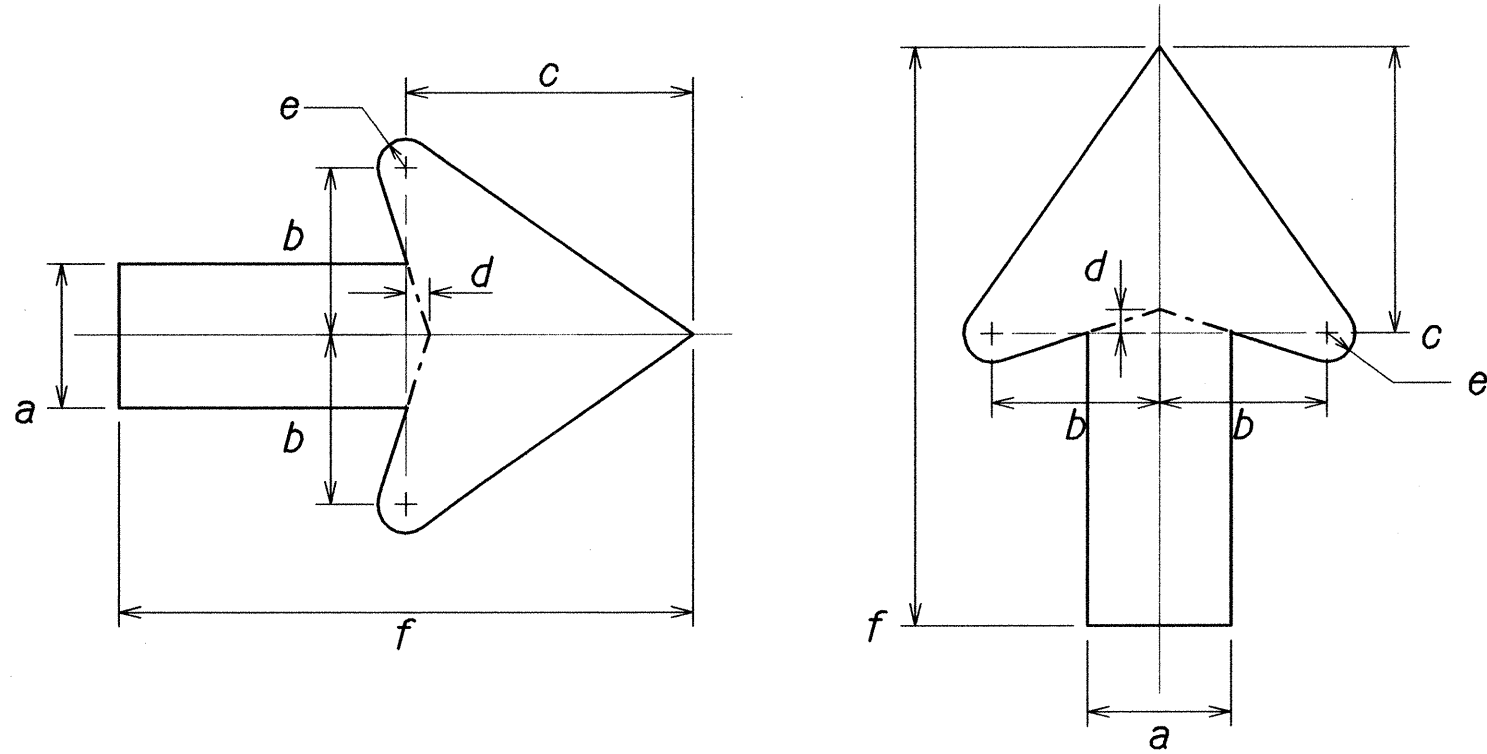
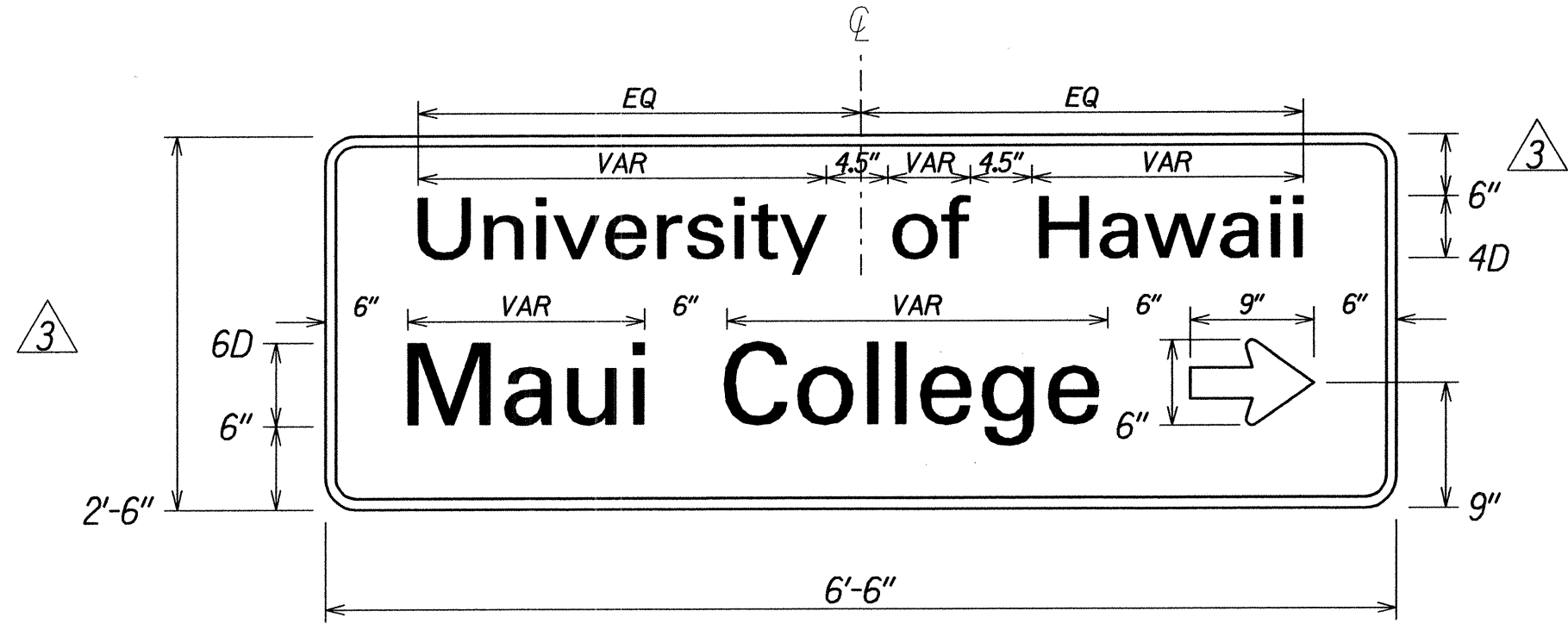
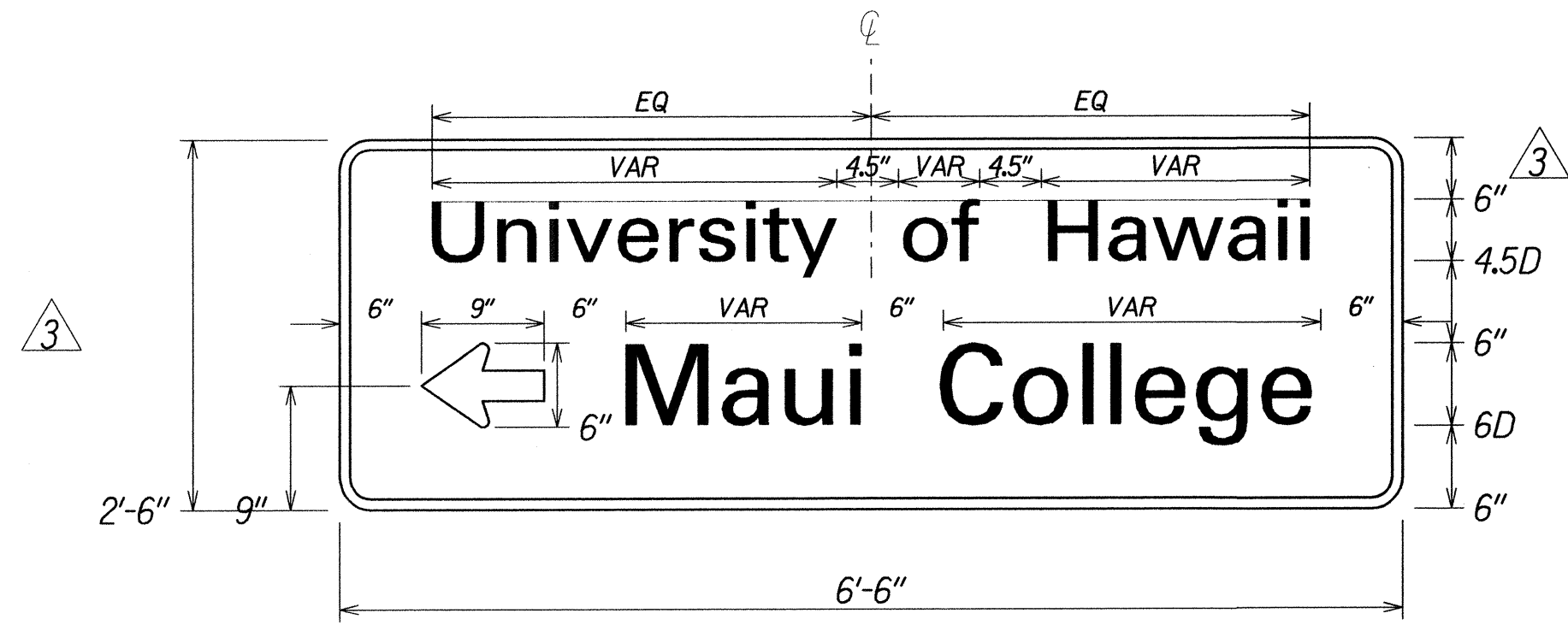
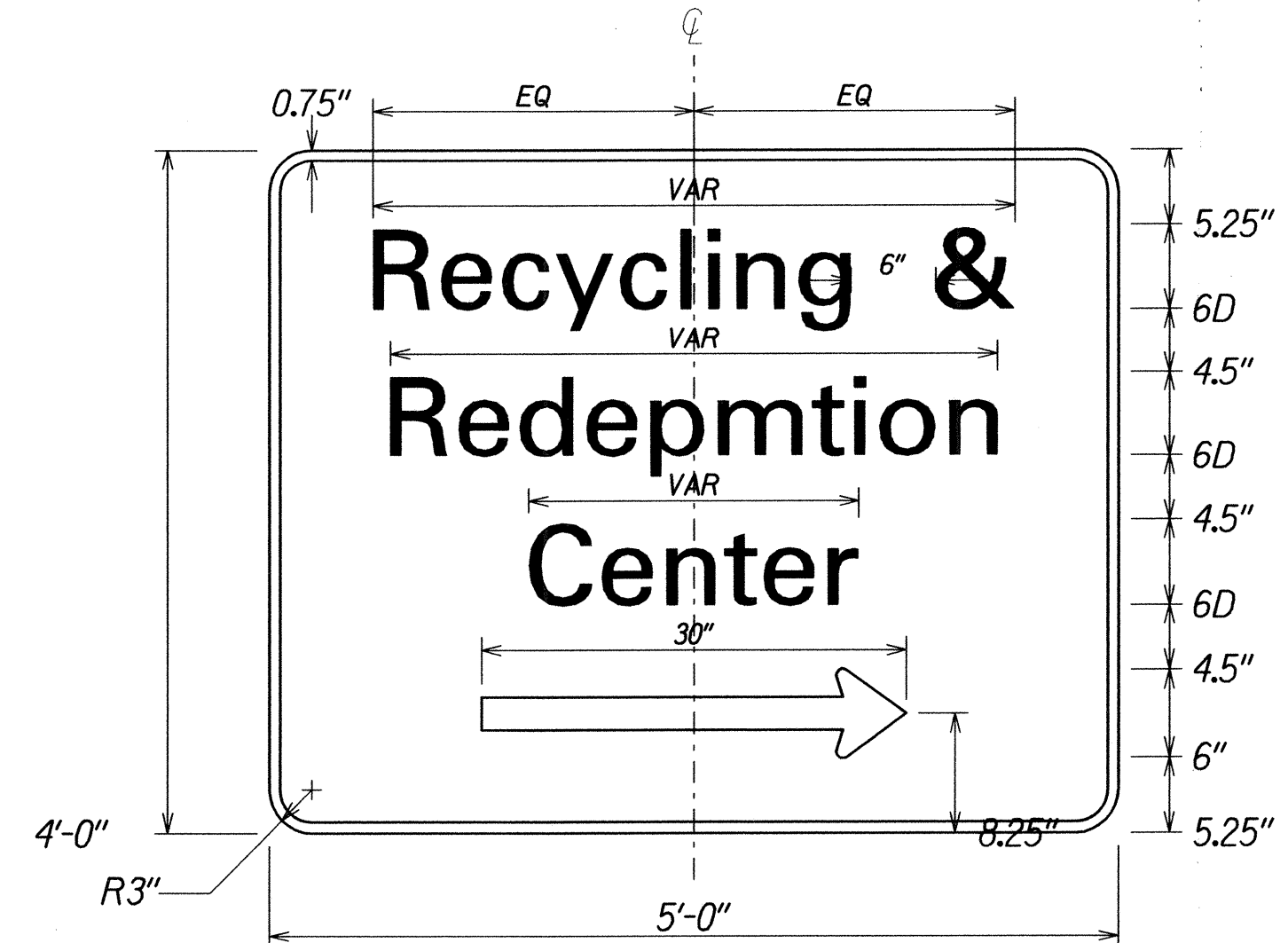
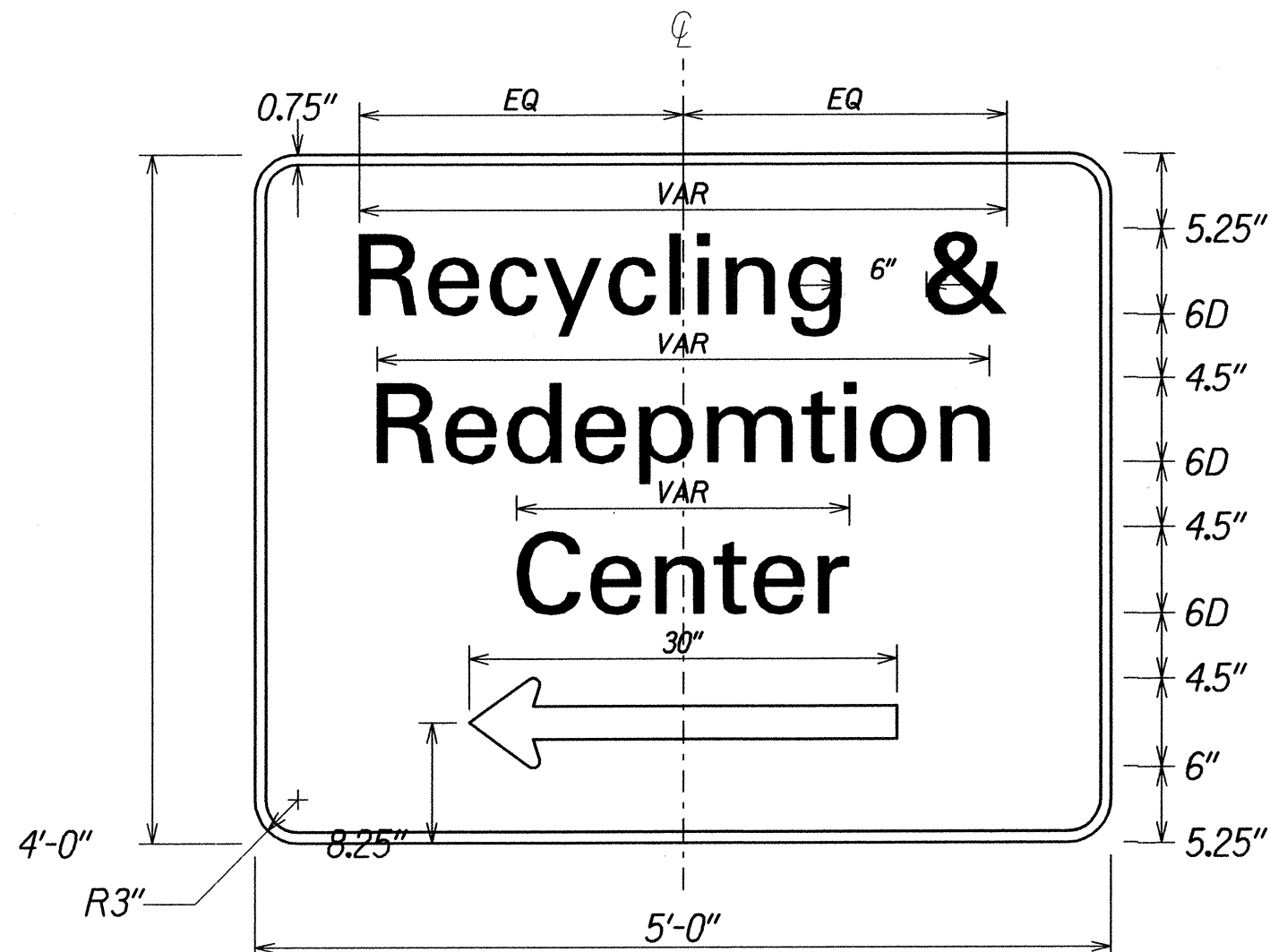
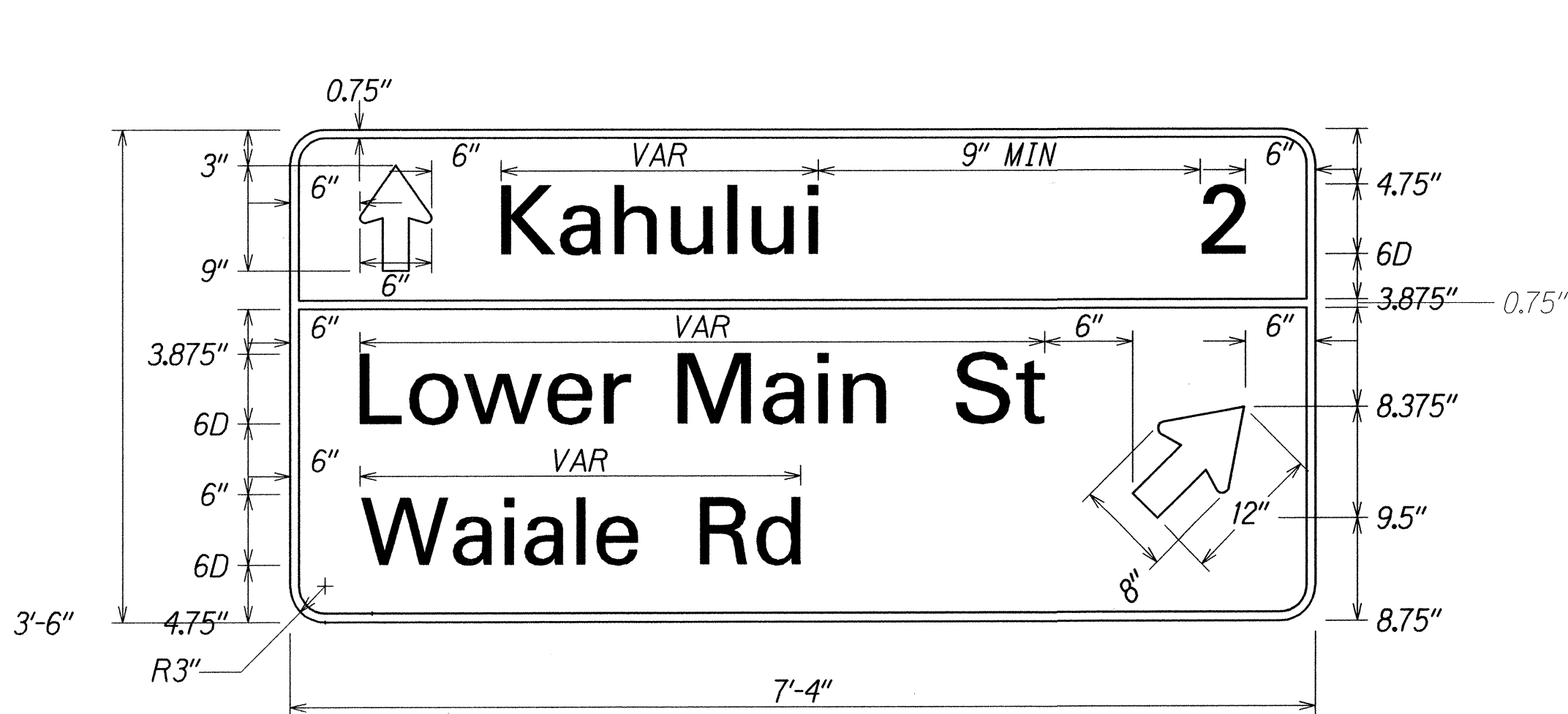
**MAIN STREET RESURFACING**  
*High Street to Kaahumanu Avenue and*  
**KAAHUMANU AVENUE RESURFACING**  
*Main Street to Hobron Avenue*  
**Federal-Aid Project No. NH-032-1(010)**

Scale: 1"= 5'                      Date: September, 2014

SHEET No. 2 OF 2 SHEETS

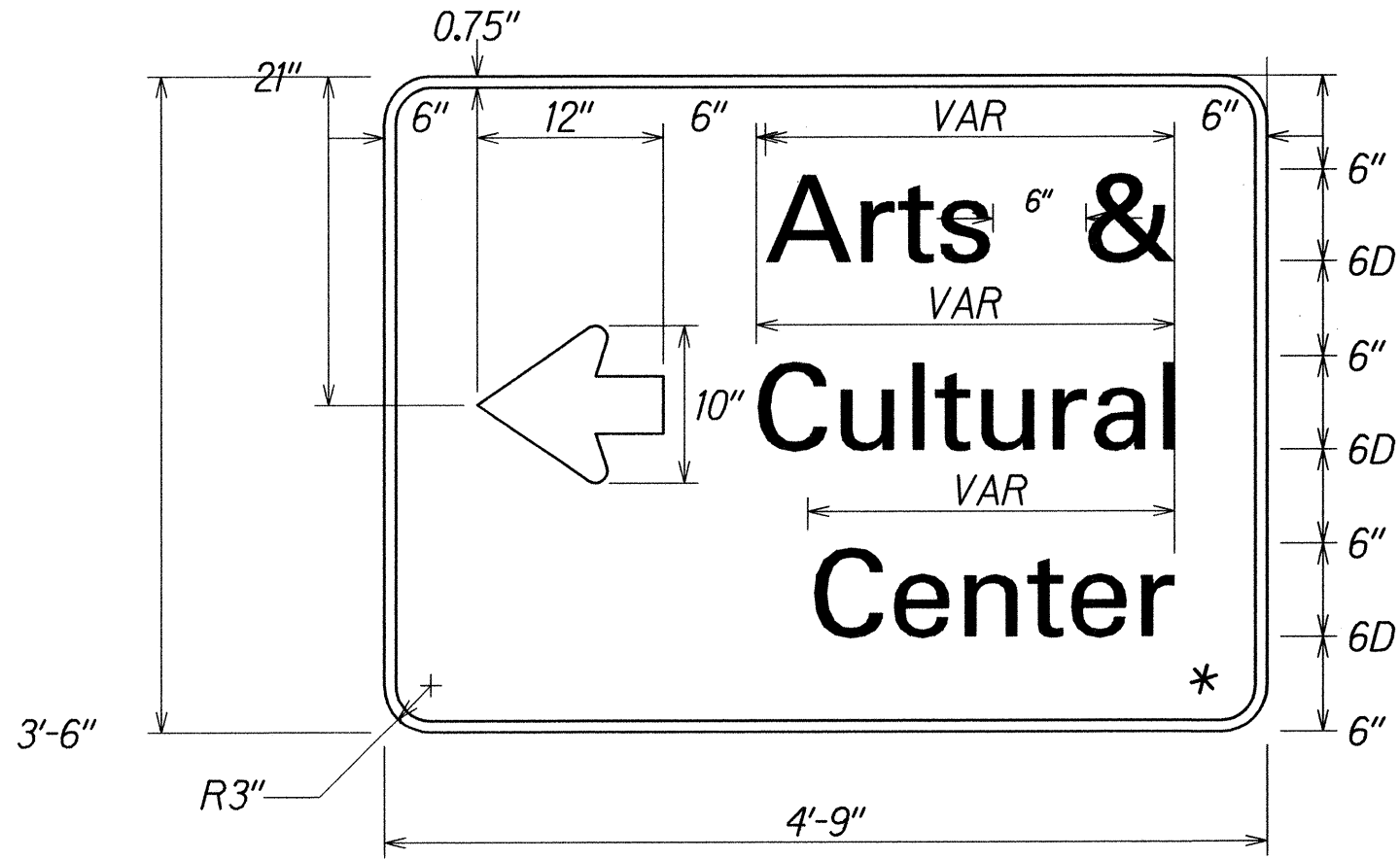


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-032-1(010)	2014	ADD.29	51

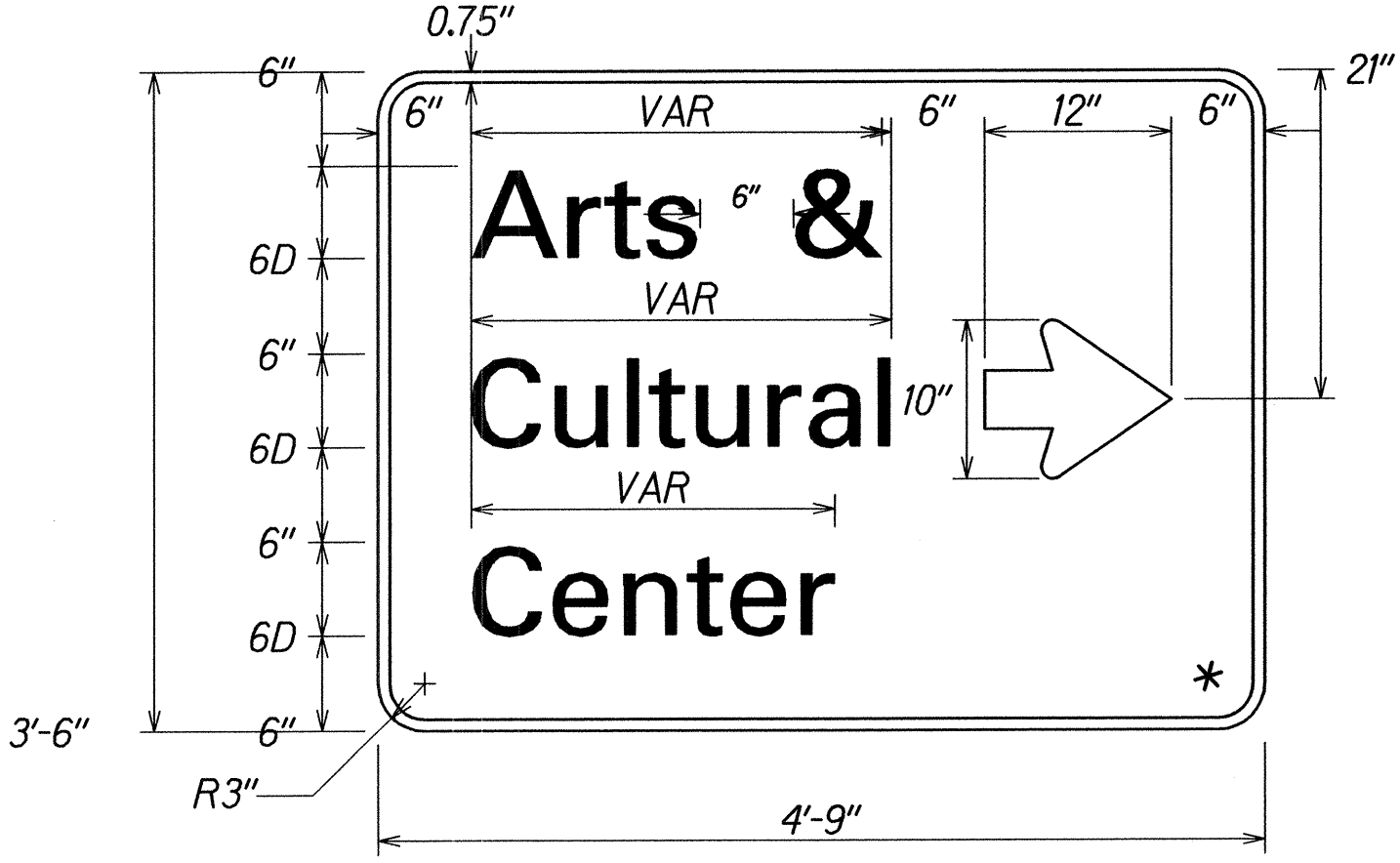


Standard Arrow Dimensions						
	a	b	c	d	e	f
1-line arrow	2.25"	2.625"	4.5"	0.375"	0.438"	9"
2-line arrow	3"	3.5"	6.125"	0.438"	0.563"	12"
3-line arrow	3.75"	4.313"	7.625"	0.563"	0.75"	12"

TYPICAL ARROW DETAIL  
Not to Scale



\* Colors: Legend, Border - White (Retroreflective)  
Background - Brown (Retroreflective)



\* Colors: Legend, Border - White (Retroreflective)  
Background - Brown (Retroreflective)

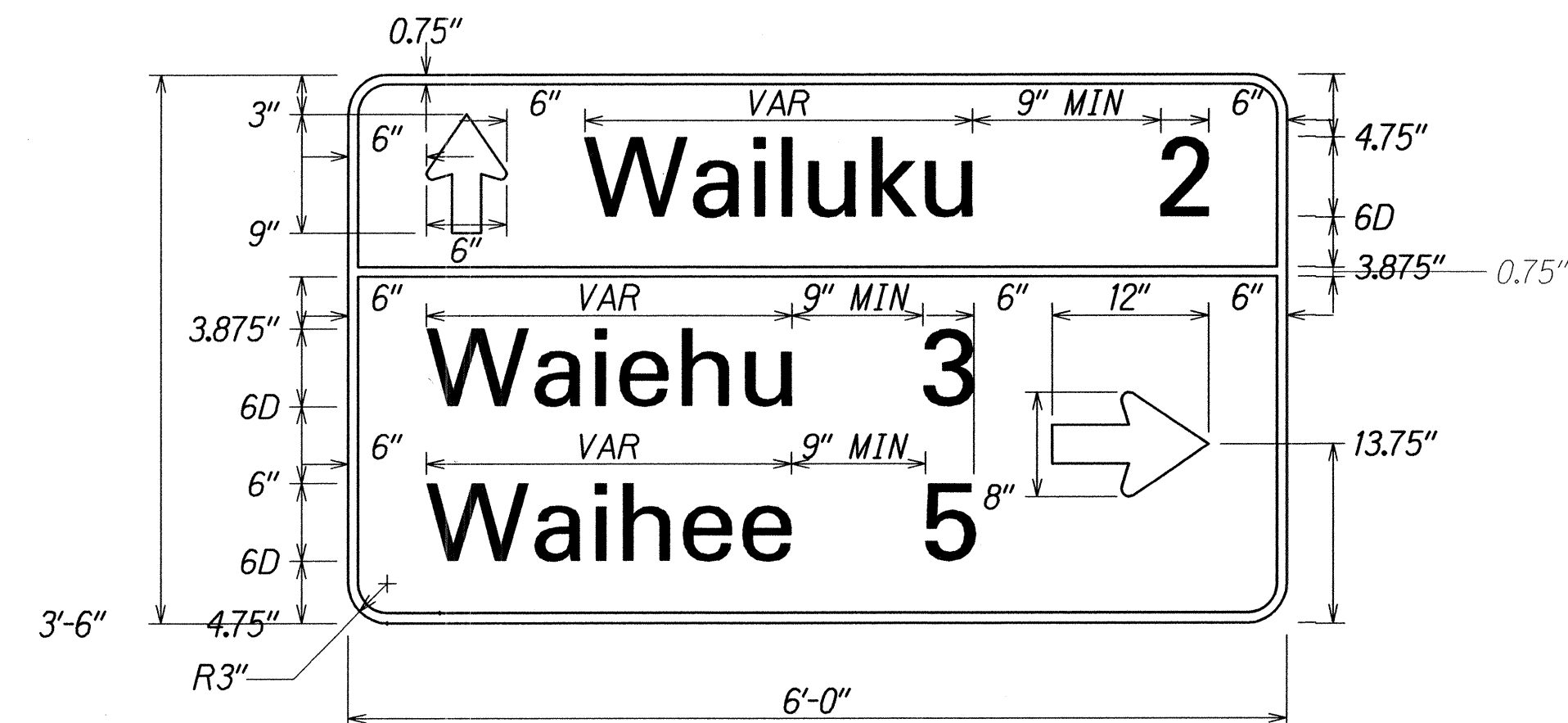
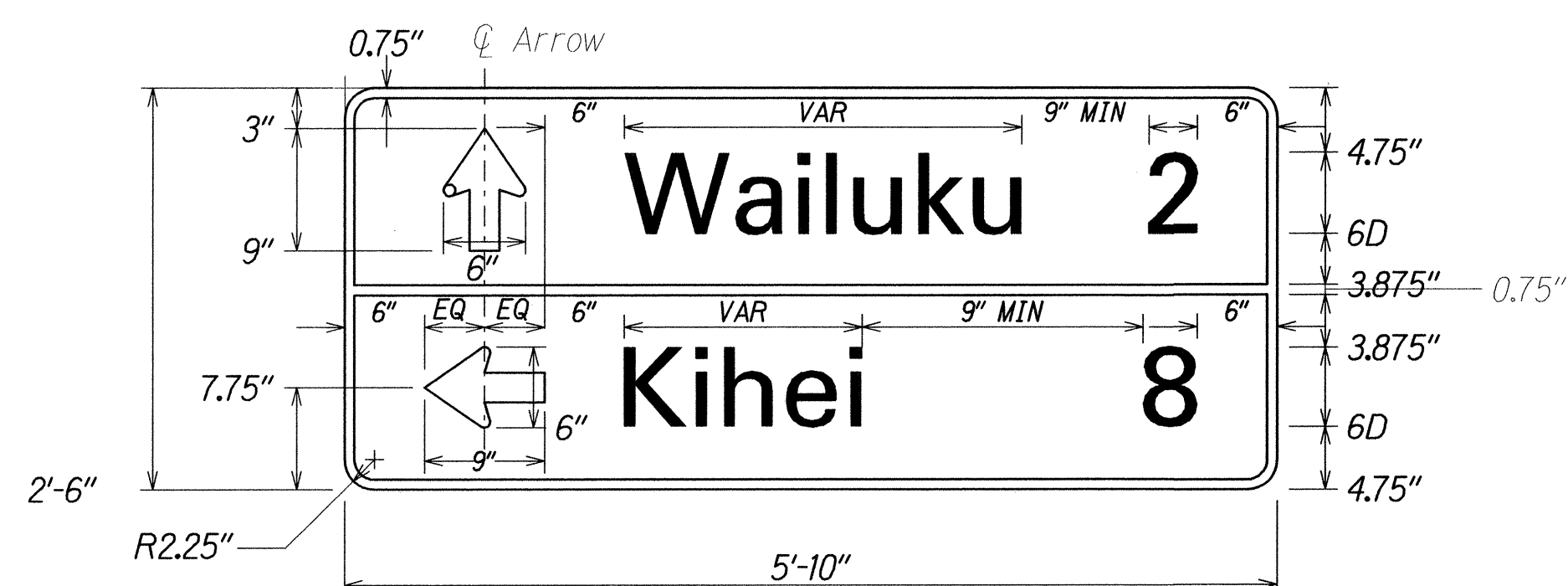
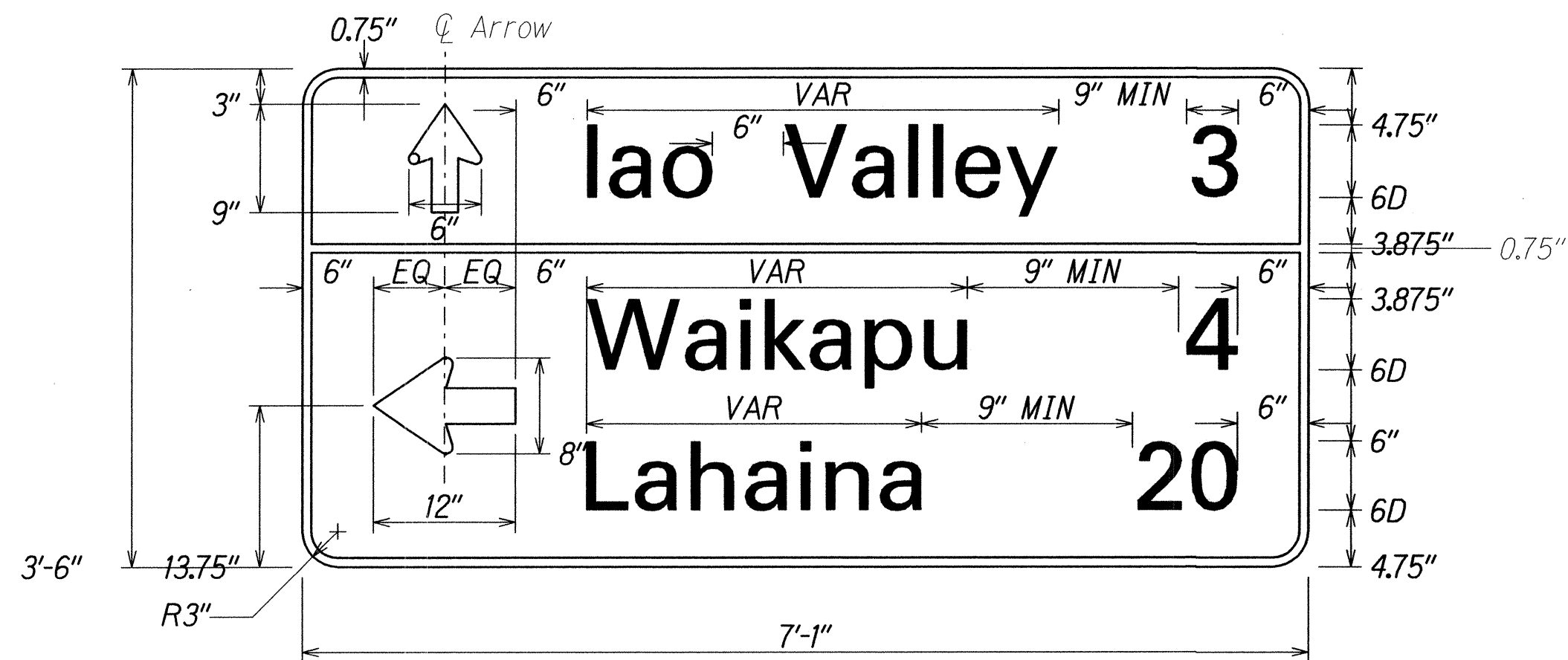
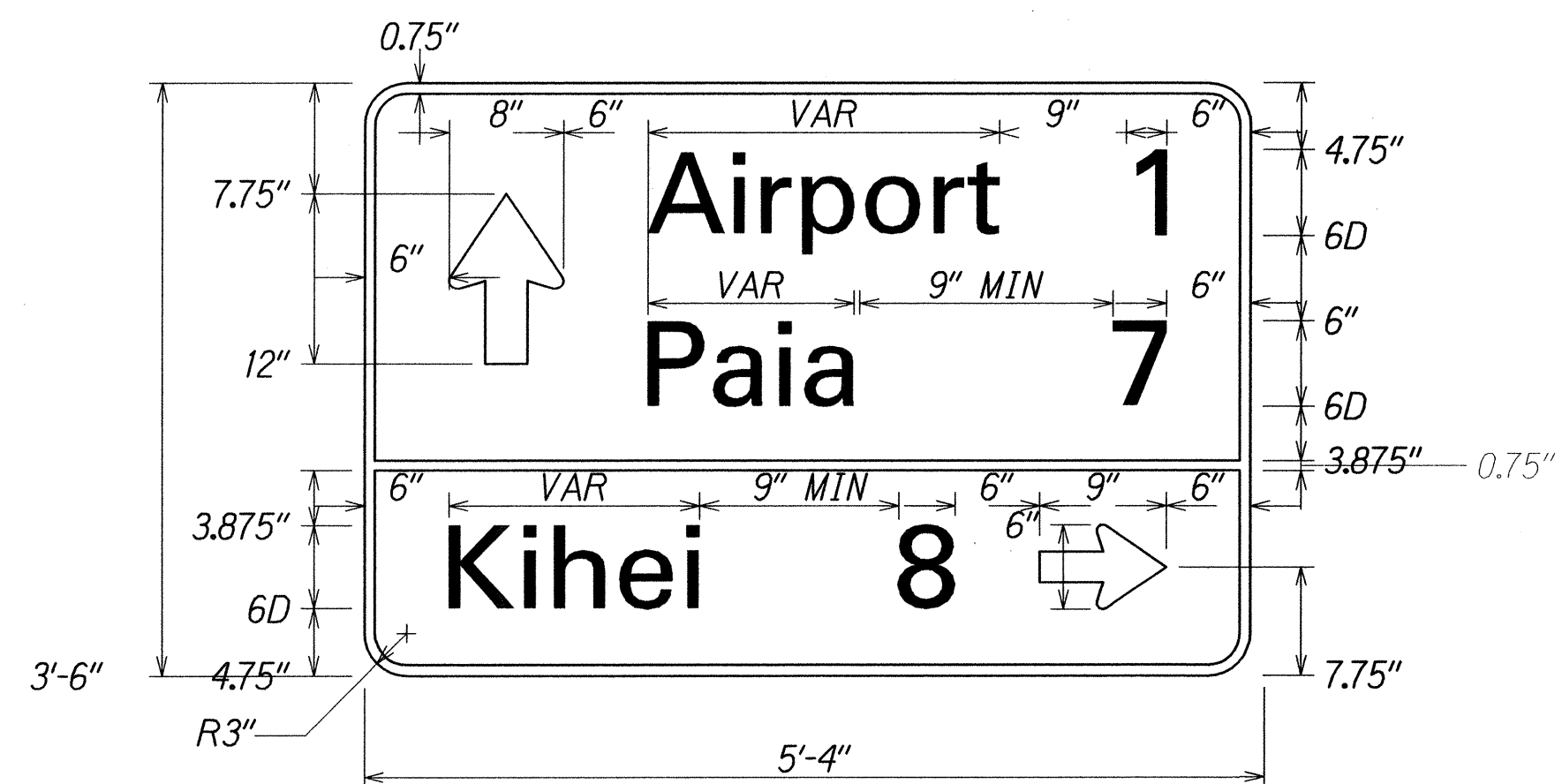
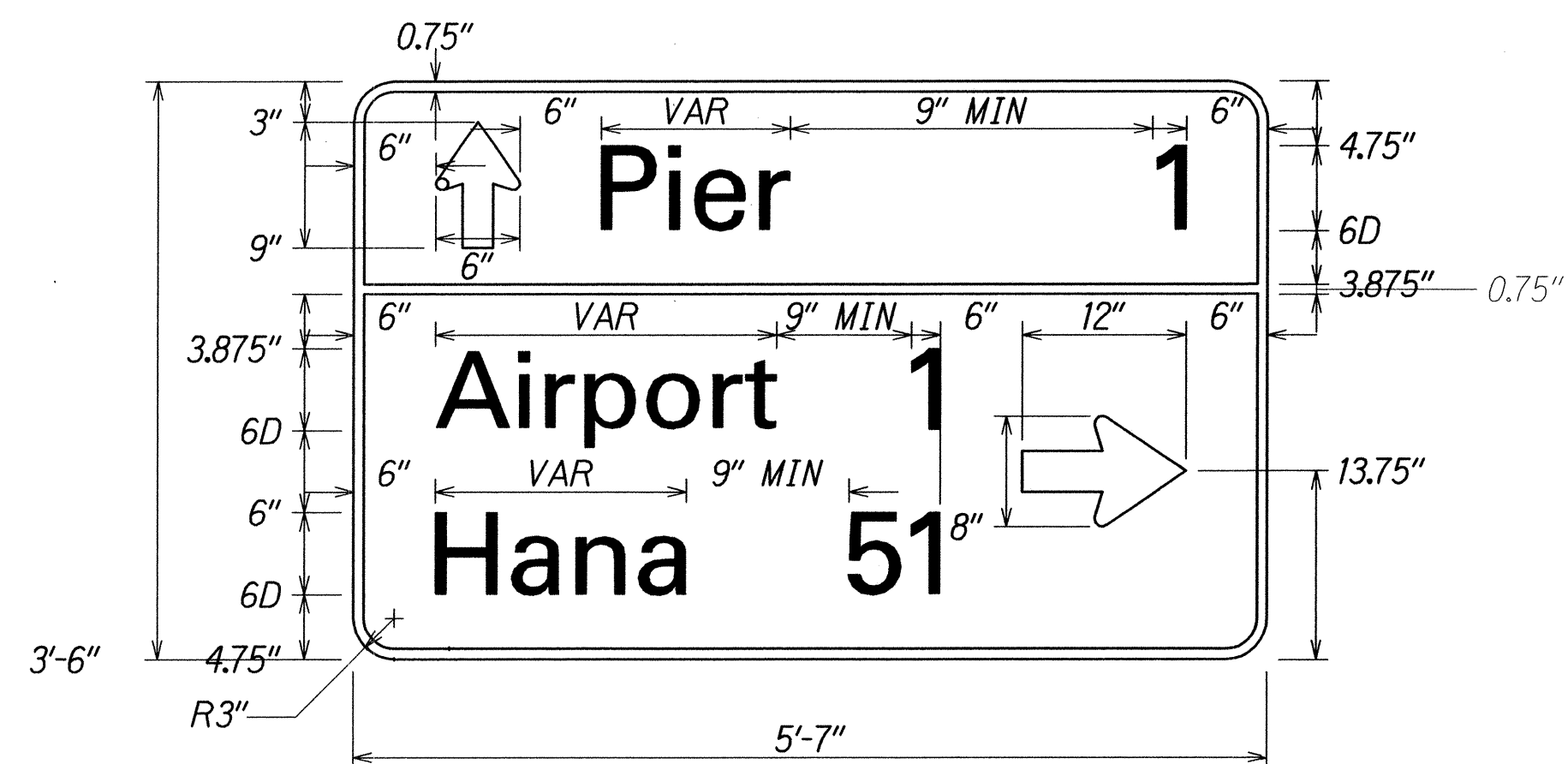
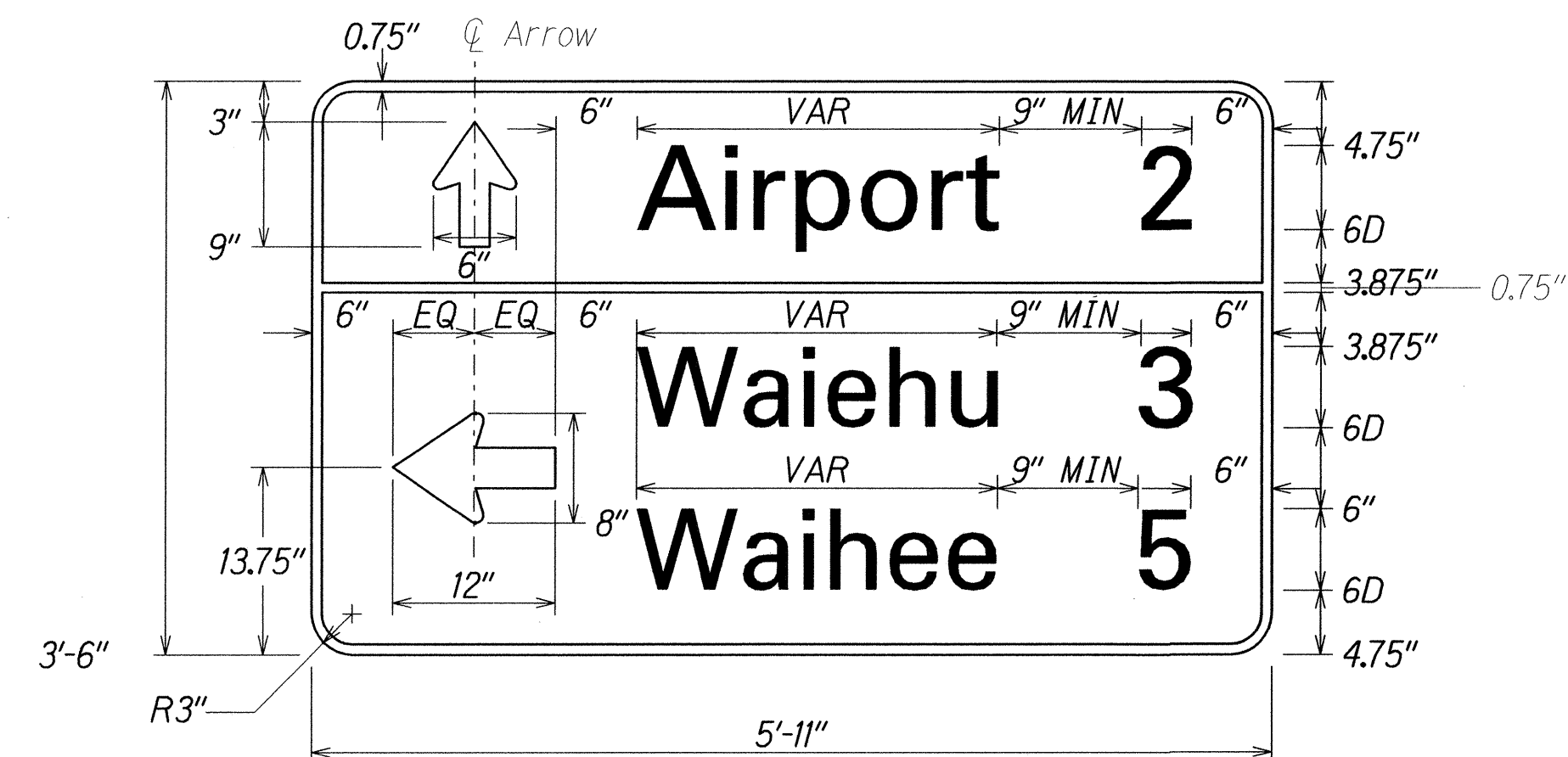
DATE	10/14
SURVEY PLOTTED BY	...
DESIGNED BY	...
NOTED BY	...
CHECKED BY	...

12/8/14 Revised dimensions

DATE REVISION

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**SIGN PANEL LAYOUT**  
**MAIN STREET RESURFACING**  
**High Street to Kaahumanu Avenue**  
**KAAHUMANU AVENUE RESURFACING**  
**High Street to Hobron Avenue**  
**Federal-Aid Project No. NH-032-1(010)**  
**Scale: NTS Date: October, 2014**  
SHEET No. 1 OF 2 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-032-1(010)	2014	ADD.30	51



### GENERAL NOTES

- The contractor shall verify the locations and dimensions of existing sign panels, supports, and framing.
- Letter Size: Use Series D2000
- All signs shall conform to Section 630 of the Standard Specifications and the latest editions and amendments of the following FHWA publications:
  - "Manual on Uniform Traffic Control Devices for Streets and Highways" (MUTCD)
  - "Standard Highway Signs"
  - "Standard Alphabets for Highway Signs"
- Borders, messages, arrows, symbols and shield conform to details as shown on the plans and as specified in the MUTCD.
- Sign messages shall be as indicated on the plans.
- All panels shall be reflectorized in accordance with Section 750 of the Standard Specifications.
- Contractor shall submit all sign splicing details to the Engineer for approval.
- Signs shall be installed with 2 1/2" square tube posts, 2-post installation, unless shown otherwise on the plans.
- All signs shall be provided w/frame stiffeners in accordance with TE-03 of the Standard Plans.
- All guide signs shall consist of white (retroreflective) legend and border with green (retroreflective) background, unless shown otherwise.

DATE	10/14
SURVEY PLOTTED BY	adrian dago
DRAWN BY	adrian dago
DESIGNED BY	adrian dago
CHECKED BY	adrian dago
NOTED BY	adrian dago
ORIGINAL PLAN	

12/8/14 Revised notes

DATE

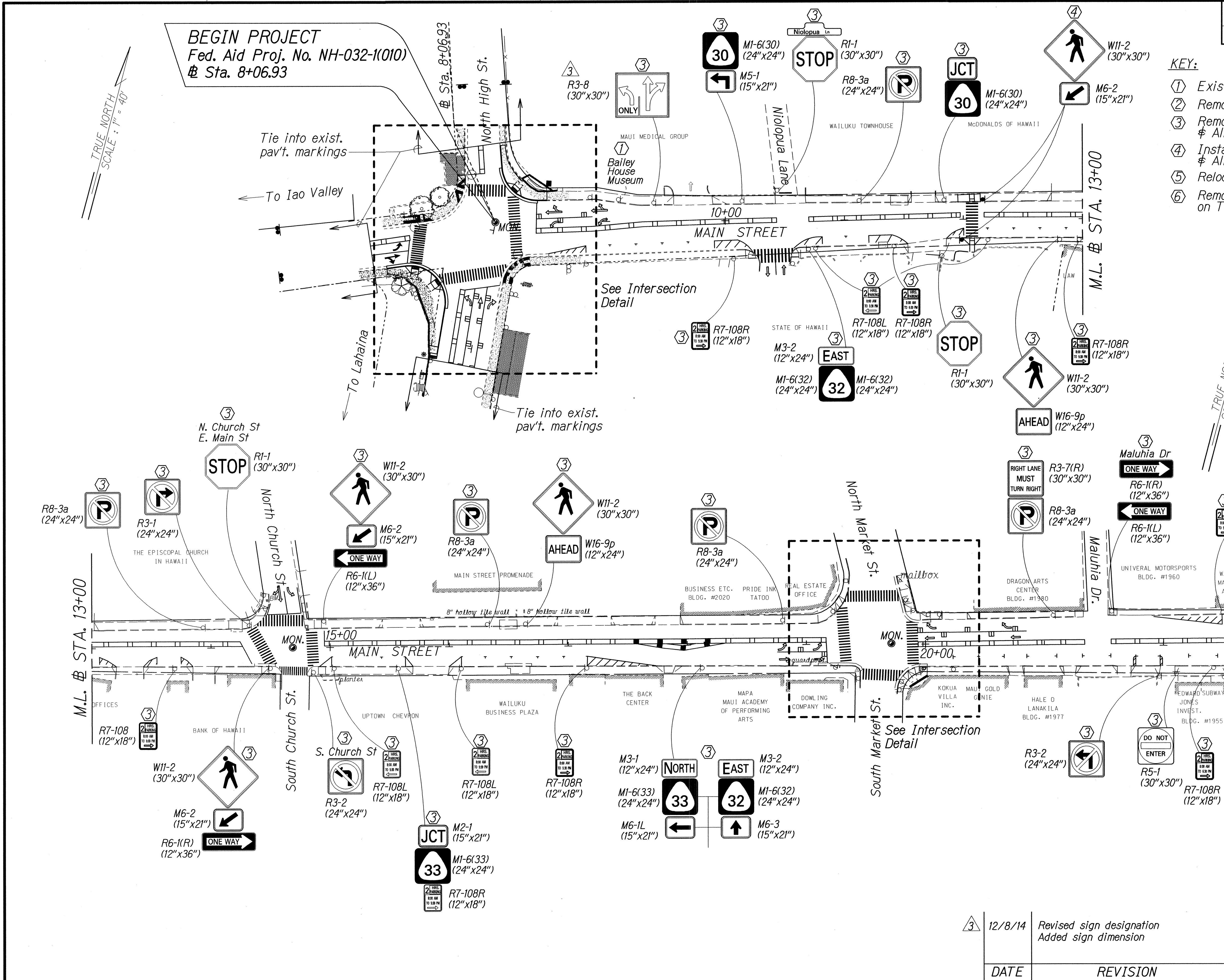
REVISION

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION <b>SIGN PANEL LAYOUT</b> <b>MAIN STREET RESURFACING</b> <b>High Street to Kaahumanu Avenue</b> <b>KAAHUMANU AVENUE RESURFACING</b> <b>High Street to Hobron Avenue</b> <b>Federal-Aid Project No. NH-032-1(010)</b> <b>Scale: NTS</b> <b>Date: October, 2014</b>
SHEET No. 2 OF 2 SHEETS

ADD. 30



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-032-1(010)	2014	ADD.31	51



12/8/14	Revised sign designation Added sign dimension
---------	--

DATE	REVISION
------	----------



[illegible]

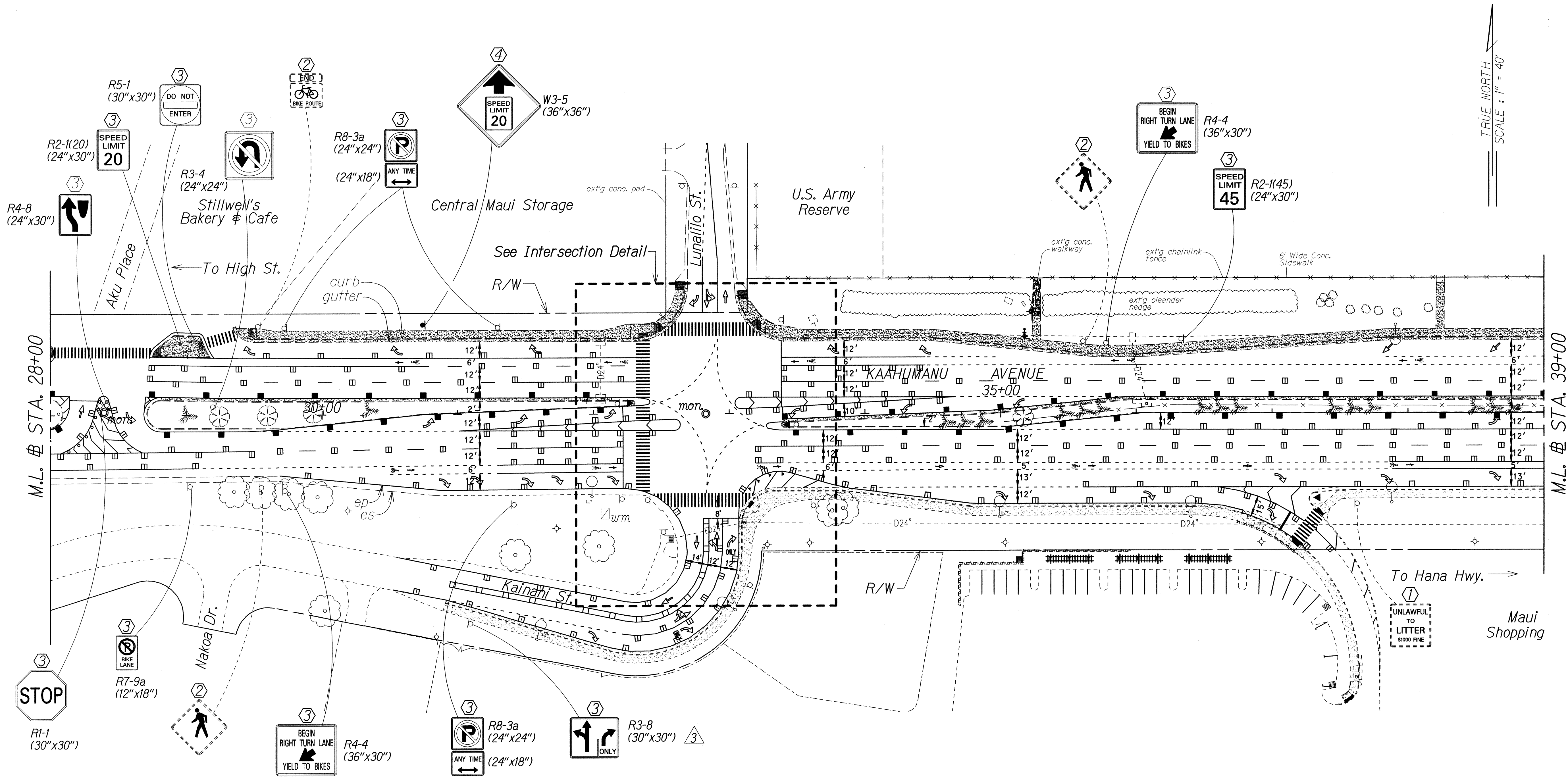
**KEY:**

- ① Exist. Sign(s) & Post(s) to Remain
- ② Remove Exist. Sign(s) & Post(s)
- ③ Remove Exist. & Install New Sign(s) & Post(s)  
    & All Sign(s) to have RM-3 on Post(s)
- ④ Install New Sign(s) & Post(s)  
    & All Sign(s) to have RM-3 on Post(s)
- ⑤ Relocate Exist. Sign(s) & Post(s)
- ⑥ Remove Exist. & Install New Sign(s)  
    on Traffic Signal Post(s)

**ADD. 32**



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-032-1(010)	2014	ADD.33	51



KEY:

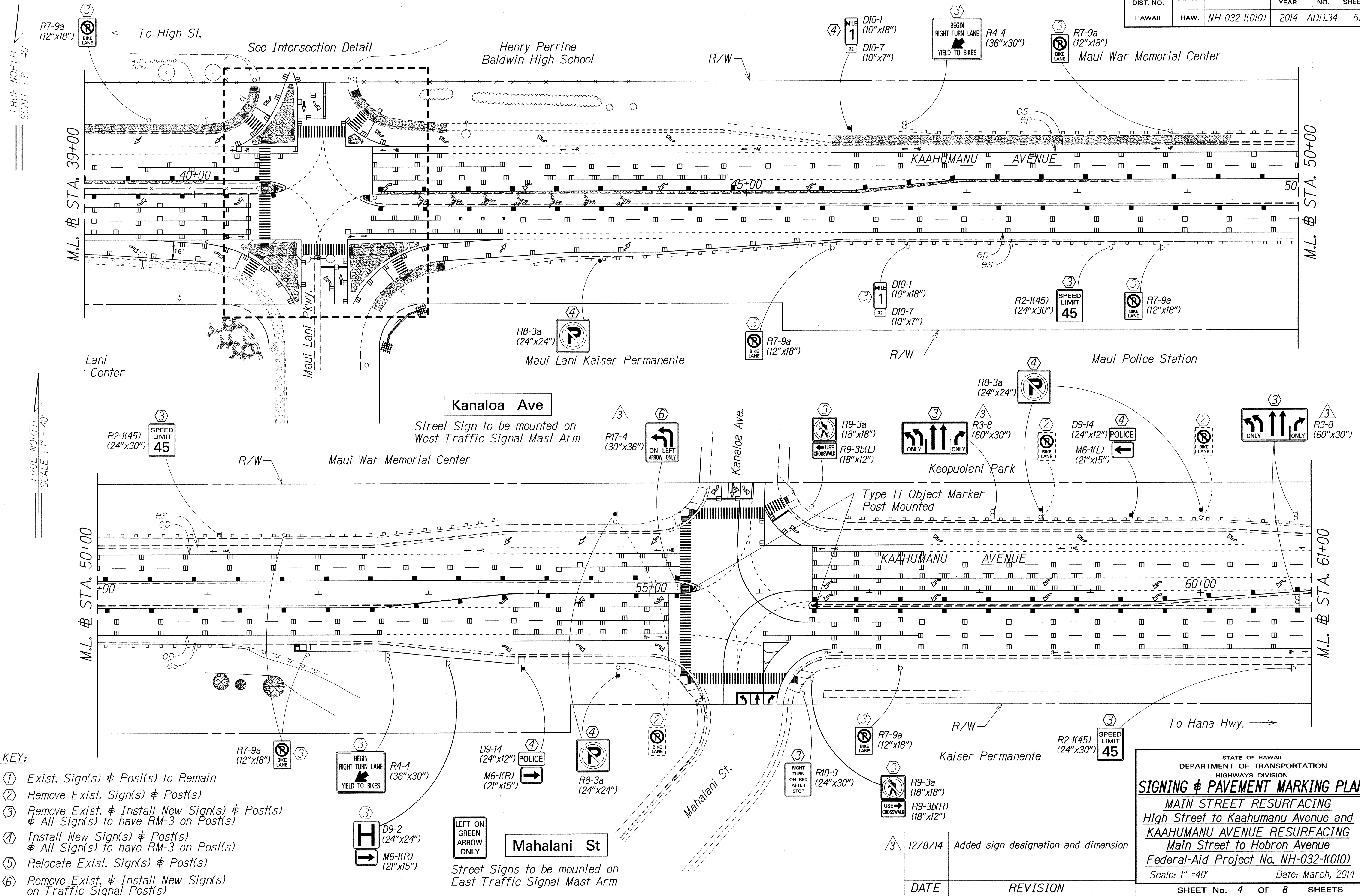
- ① Exist. Sign(s) & Post(s) to Remain
- ② Remove Exist. Sign(s) & Post(s)
- ③ Remove Exist. & Install New Sign(s) & Post(s)  
& All Sign(s) to have RM-3 on Post(s)
- ④ Install New Sign(s) & Post(s)  
& All Sign(s) to have RM-3 on Post(s)
- ⑤ Relocate Exist. Sign(s) & Post(s)
- ⑥ Remove Exist. & Install New Sign(s)  
on Traffic Signal Post(s)

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION		
<b>SIGNING &amp; PAVEMENT MARKING PLAN</b>		
MAIN STREET RESURFACING High Street to Kaahumanu Avenue and KAAHUMANU AVENUE RESURFACING Main Street to Hobron Avenue Federal-Aid Project No. NH-032-1(010)		
Scale: 1" = 40'		Date: March, 2014
SHEET No. 3 OF 8 SHEETS		

12/8/14	Added sign designation and dimension
DATE	REVISION



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-032-1(010)	2014	ADD.34	51









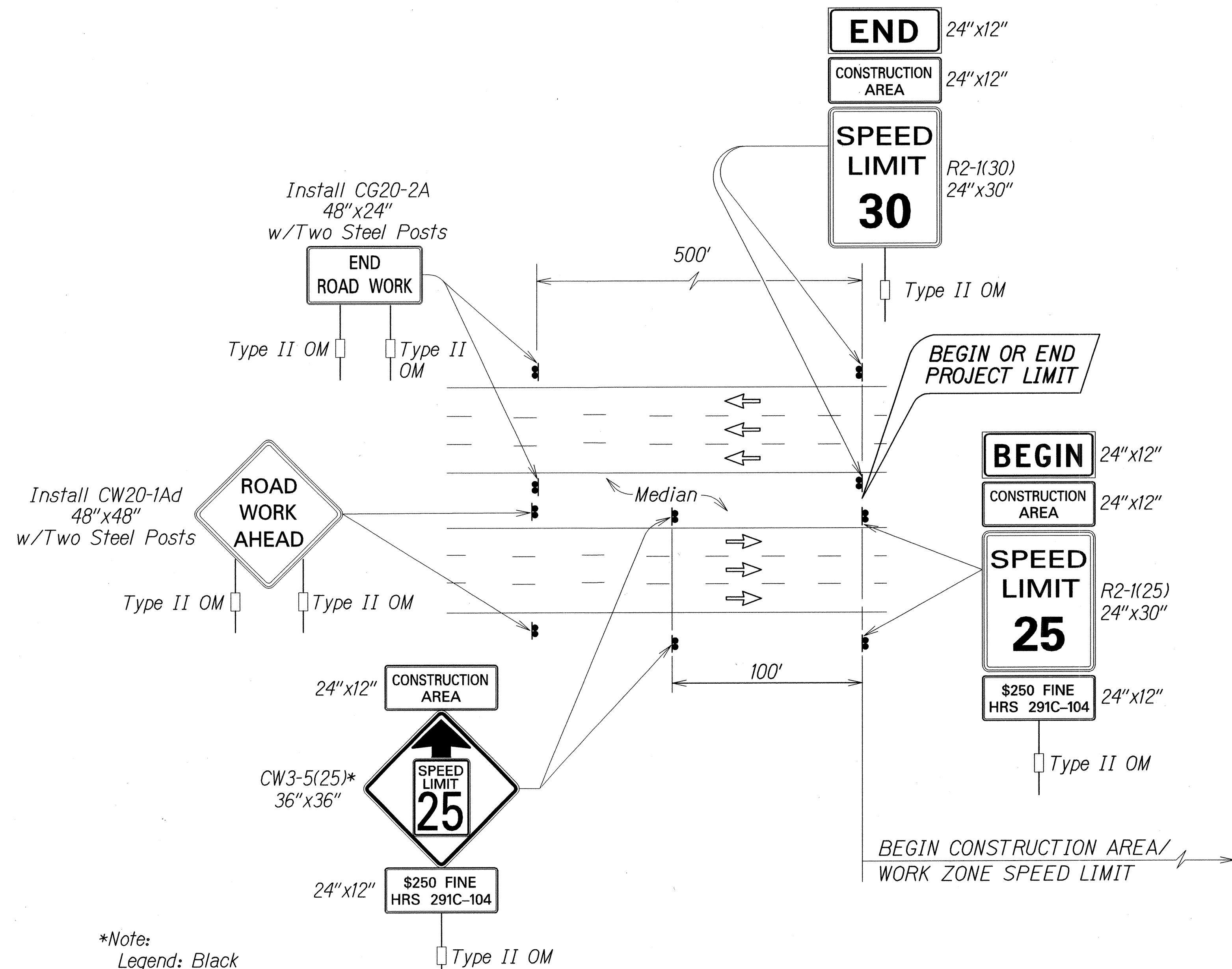






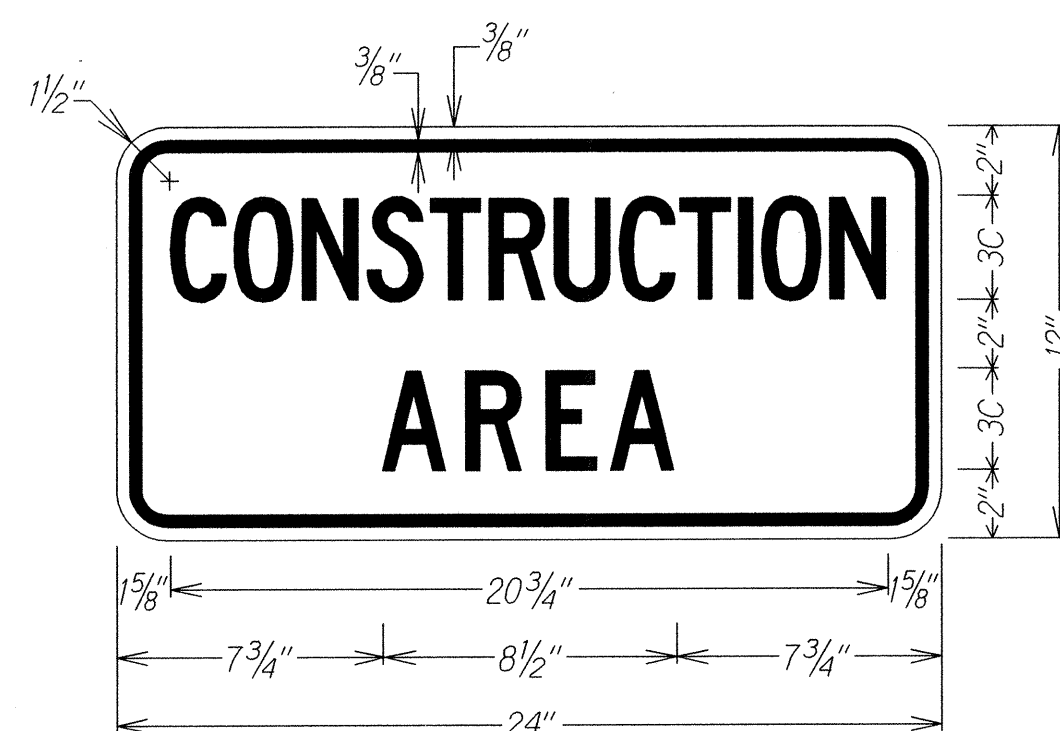


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-032-1(010)	2014	ADD.51S-2	51

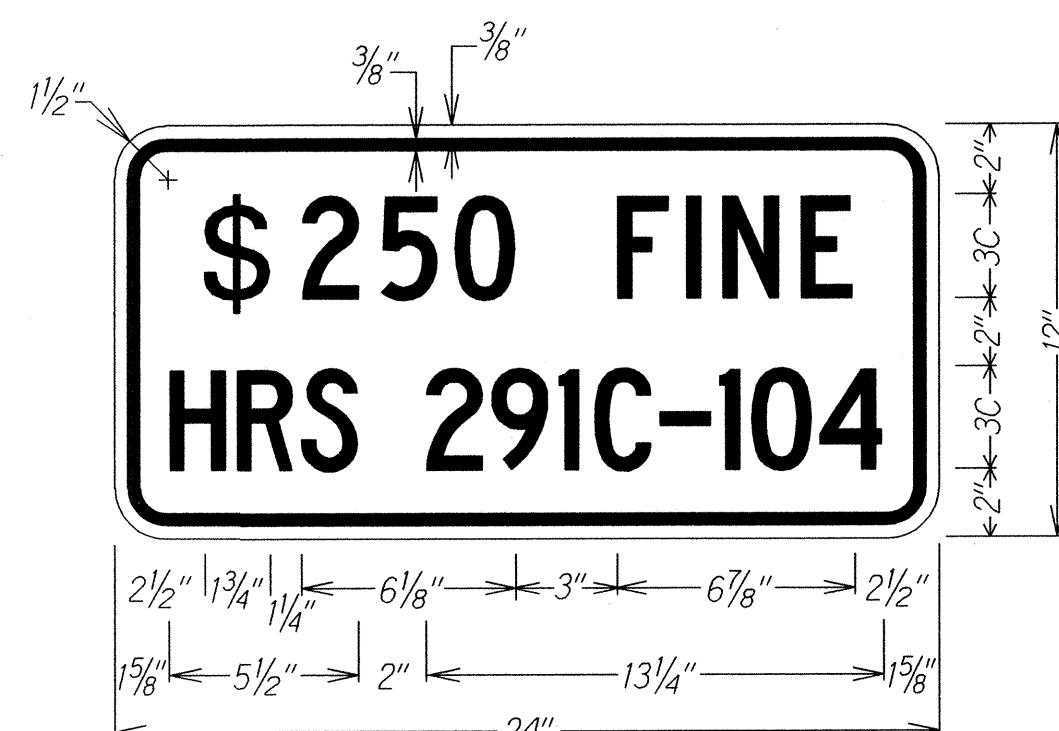


\*Note:  
Legend: Black  
Background: Orange  
Speed Limit: Black on White

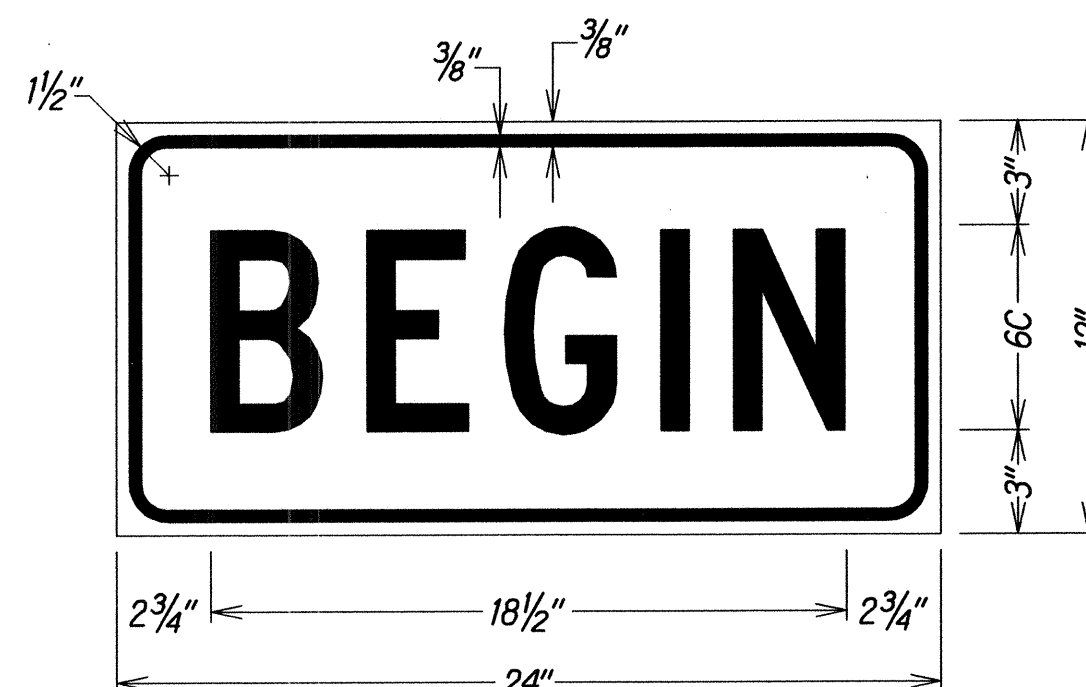
TYPICAL DETAIL FOR CONSTRUCTION SIGNS  
ON MULTILANE DIVIDED LOW SPEED HIGHWAY



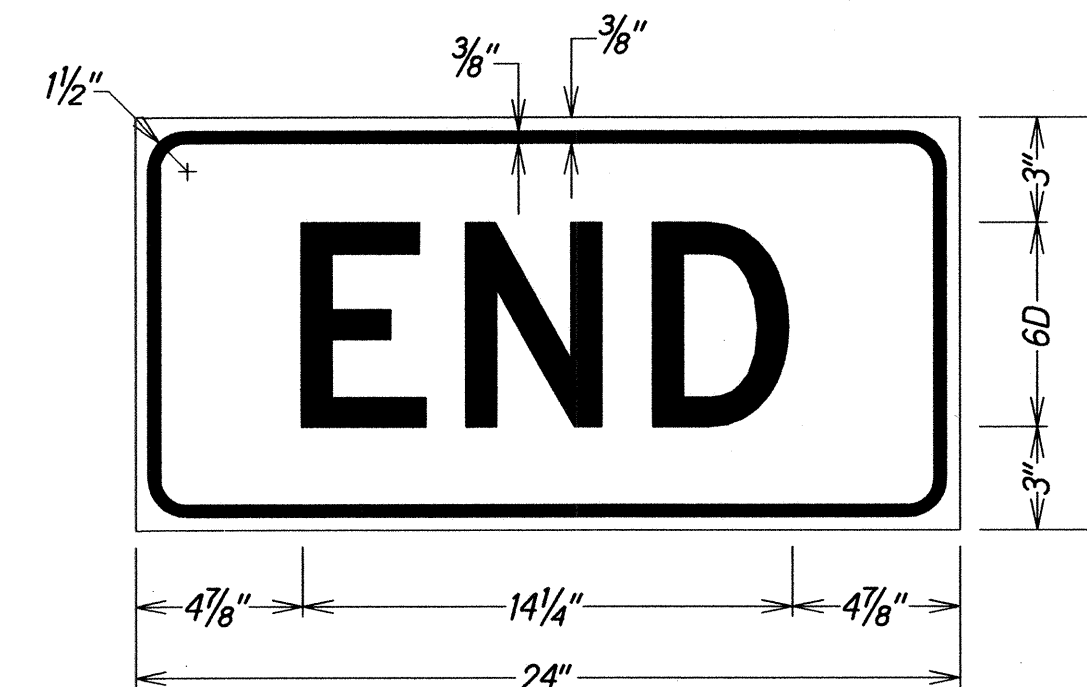
LEGEND: BLACK  
BACKGROUND: ORANGE



LEGEND: BLACK  
BACKGROUND: WHITE



LEGEND: BLACK  
BACKGROUND: ORANGE



LEGEND: BLACK  
BACKGROUND: ORANGE

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(XX) and CW3-5(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. 621.7100, Construction Sign with Posts.
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. 621.7100, Construction Sign with Posts. Sign covers shall be commercially manufactured and HDOT approved. Sign covers shall not allow any portion of the sign being covered to be visible. If the sign has more than one side, cover shall completely cover each side. "Homemade" or "field made" covers shall not be used or accepted.

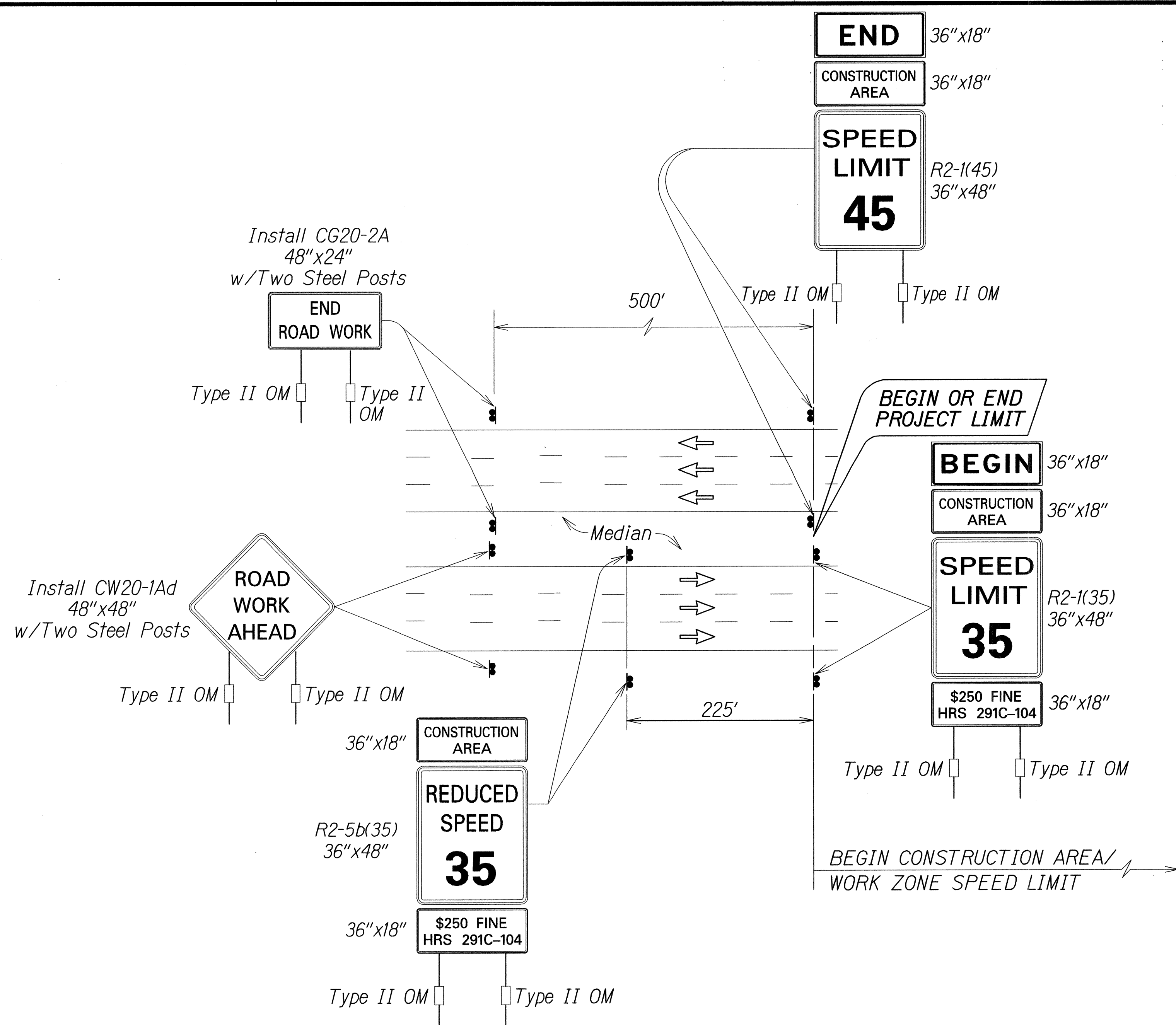
SURVEY PLOTTED BY	DATE
DESIGNED BY	
TRACED BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	

4/12/19 07 Just 2 Lines above const. signs construction

12/8/14	New sheet
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION <b>LOW SPEED DIVIDED HIGHWAY</b> <b>WORK ZONE SIGNING PLAN, NOTES&amp;DETAILS</b> MAIN STREET RESURFACING, High St. to Kaahumanu Ave. and KAAHUMANU AVENUE RESURFACING Main Street to Hobron Avenue Federal-Aid Project No. NH-032-1(010) Not To Scale Date: December, 2014	
SHEET No. 2 OF 3 SHEETS	

ADD. 51 S-2

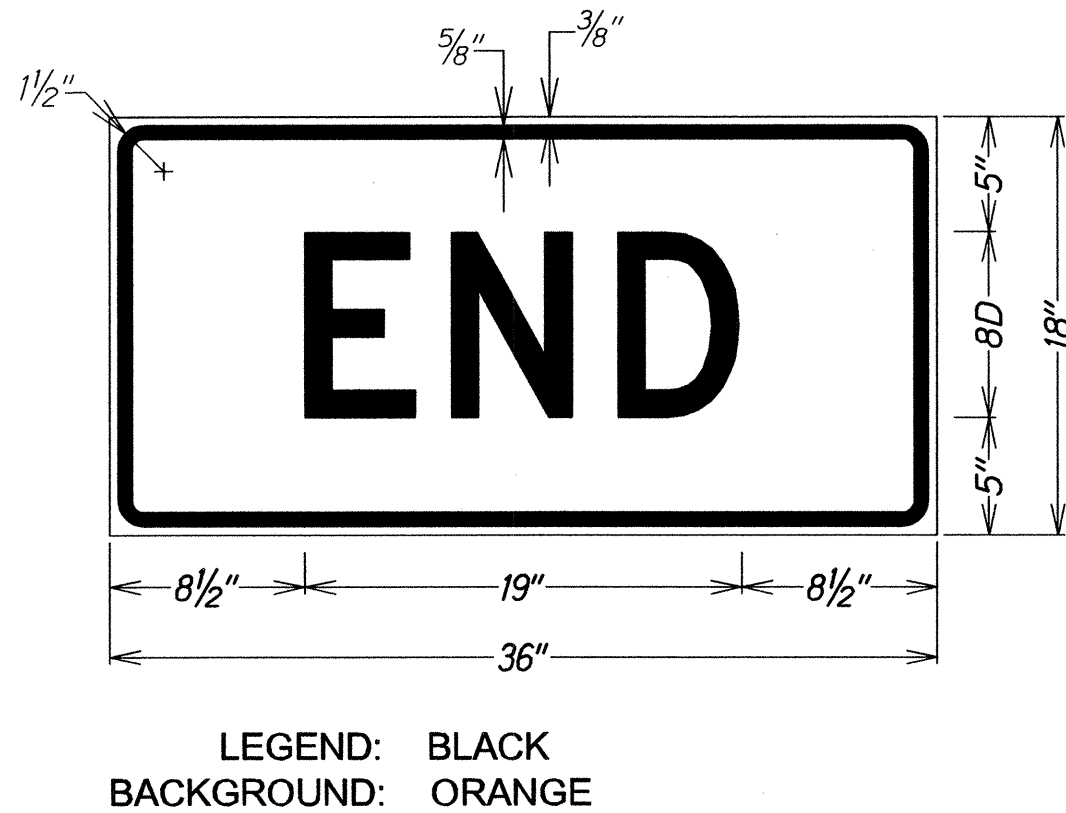
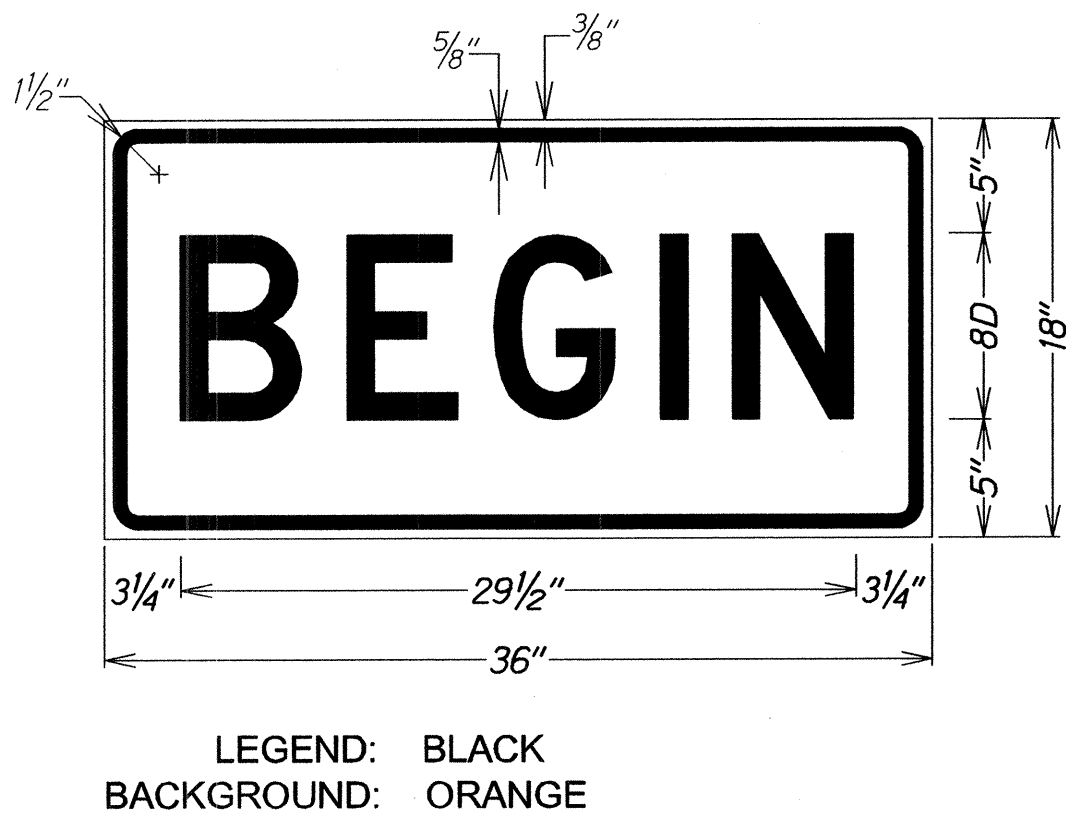
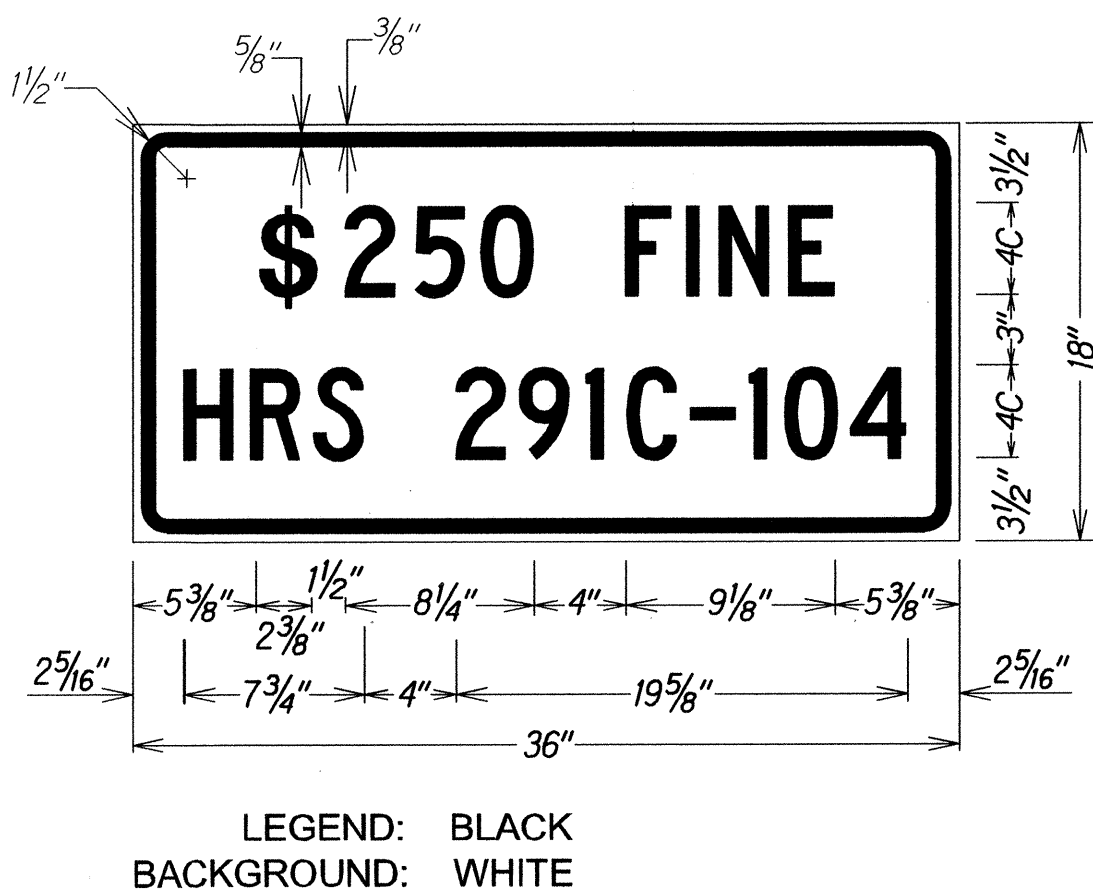
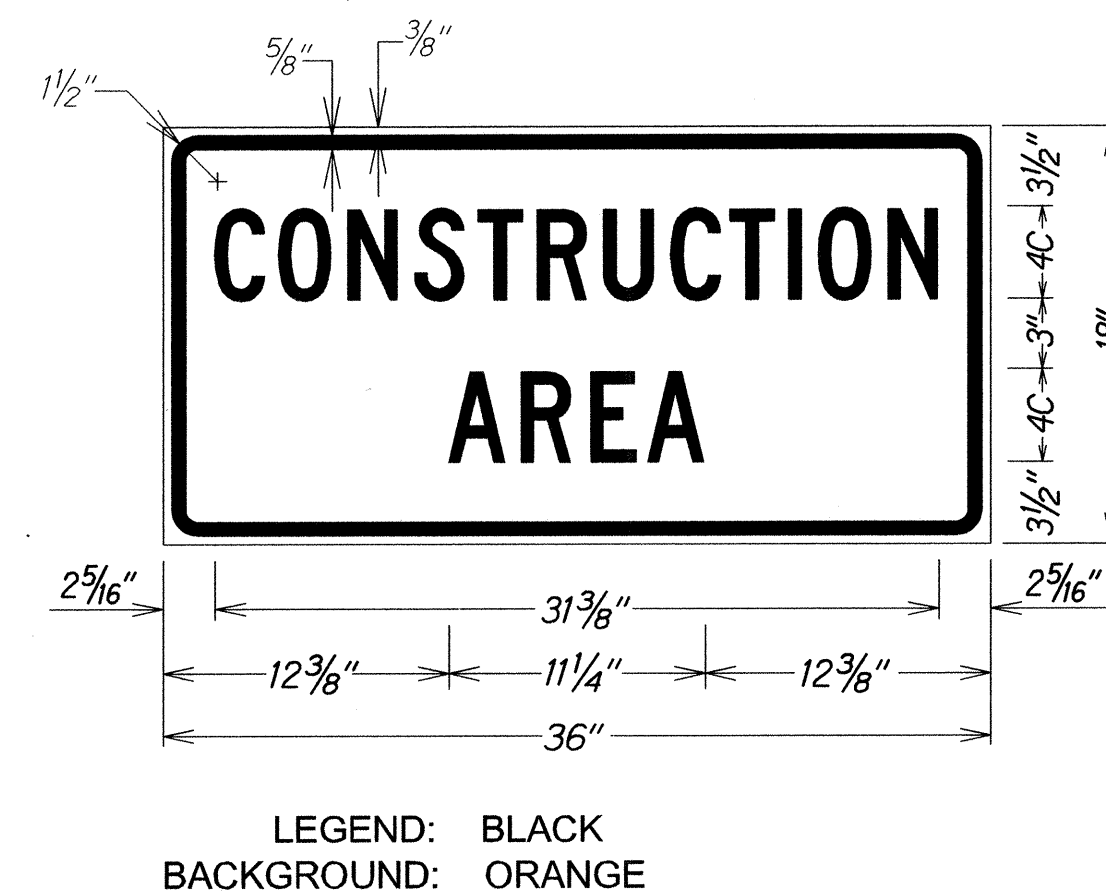
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-032-1(010)	2014	ADD.51 S-3	51



#### 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 and work zone speed limit assembly shall have a minimum of two (2) Type II OM. Installation of each Type II OM shall be considered incidental to Item No. 621.7100, Construction Sign with Posts.
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. 621.7100, Construction Sign with Posts.

TYPICAL DETAIL FOR CONSTRUCTION SIGNS  
ON MULTILANE DIVIDED HIGH SPEED HIGHWAY



12/8/14	New sheet
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION <b>HIGH SPEED DIVIDED HIGHWAY</b> <b>WORK ZONE SIGNING PLAN, NOTES&amp;DETAILS</b> MAIN STREET RESURFACING, High St. to Kaahumanu Ave. and KAAHUMANU AVENUE RESURFACING Main Street to Hobron Avenue Federal-Aid Project No. NH-032-1(010) Not To Scale Date: December, 2014	
SHEET No. 3 OF 3 SHEETS	



3	TRAFFIC SIGNAL ASSEMBLY																								PEDESTRIAN COUNTDOWN SIGNAL ASSEMBLY							
	1-Way, Vertical, Prog Vis, Slipfitter (Type IA*)				2-Way, 2 Vertical, Slipfitter (Type II)				3-Way, 3 Vertical, Slipfitter (Type III)				1-Way, Vertical, Bracket (Type IV)				2-Way, 2 Vertical, Bracket (Type V)				1-Way, Vertical, Mast Arm (Type VI)				1-Way, Vertical, Prog Vis, Mast Arm (Type VI*)				1-Way, 1 Vertical, Slipfitter (Type I)	2-Way, 2 Vertical, Slipfitter (Type II)	1-Way, 1 Vertical, Bracket (Type IV)	
	R Y G	R Y ↑	R Y ←	R Y G ← (G/Y)	R Y G	R Y ↑	R Y ←	R Y G ← (G/Y)	R Y G	R Y ↑	R Y ←	R Y G ← (G/Y)	R Y G	R Y ↑	R Y ←	R Y G ← (G/Y)	R Y G	R Y ↑	R Y ←	R Y G ← (G/Y)	R Y G	R Y ↑	R Y ←	R Y G ← (G/Y)	R Y G	R Y ↑	R Y ←	R Y G ← (G/Y)				
SIGNAL HEADS																																
INTERSECTION																																
Main St & High St				2	4				3				1								3										8	
Main St & Market St	3	1				1			2			1		1								1			1				2		4	
Main St & Central Ave	1			1	1								1				1	1			1	2		1							4	
Kaahumanu Ave & Lunalilo St	1		2		2		2						1								2	1							1		3	
Kaahumanu Ave & Maui Lani Pkwy	1												6		1	3					5	1	1	1			2		1		5	
Kaahumanu Ave & Kanaloa Ave/Mahalani St			2		3			1	4		2		1				1		1		2	2					1				8	
Kaahumanu Ave & Papa Ave/Wahinepio Ave			2		4		1	1	4		2						1		1		2	2									8	
Kaahumanu Ave & Wakea Ave	1		2		2			2	4		2						1		1		2	2									8	
Kaahumanu Ave & Kaahumanu Shopping Ctr		2	2		3		1											1	1		1	3									6	
Kaahumanu Ave & Kahului Bch Rd/Kane St			3	2					5	1	3		1								1	3									12	
Kaahumanu Ave & Lono Ave	1		2		5		1		2		1		2								2	2									12	
Kaahumanu Ave & Puunene Ave	2		3		2			2	2		1						1		1		2	2									8	
Kaahumanu Ave & Wharf St	4		2		6		2														2	2									12	
TOTAL	14	3	20	5	32	1	7	6	26	1	11	1	13	1	1	3	5	2	5	0	25	23	1	3	0	0	3	0	1	4	98	

\* Programmed Visibility Head

- NOTES:
- The locations of each assembly shall be determined in the field by the Resident Engineer
  - Refer to the Standard Plans for details of each assembly.

STREET NAME SIGN ON MAST ARM SUMMARY		
STREET NAME	QTY.	SIZE
High St	2	3'-7" x 1'-6"
Main St	1	3'-7" x 1'-6"
Market St	1	4'-5" x 1'-6"
Central Ave	1	4'-10" x 1'-6"
Lunalilo St	1	4'-11" x 1'-6"
Kainani St	1	4'-9" x 1'-6"
Maui Lani Pkwy	2	6'-7" x 1'-6"
Kanaloa Ave	1	5'-3" x 1'-6"
Mahalani St	1	5'-4" x 1'-6"
Wahinepi'o Ave	1	6'-3" x 1'-6"
Papa Ave	1	4'-0" x 1'-6"
Wakea Ave	1	4'-6" x 1'-6"
Kahului Bch Rd	1	6'-11" x 1'-6"
Kane St	1	3'-8" x 1'-6"
Lono Ave	2	4'-0" x 1'-6"
Pu'unene Ave	2	5'-8" x 1'-6"
Wharf St	2	3'-11" x 1'-6"

- NOTES:
- Refer to the Standard Plans for sign layout details.

3

12/15/14

Add traffic signal summary  
Add street name sign summary

DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION <b>MISCELLANEOUS INTERSECTION</b> <b>SUMMARIES</b> MAIN STREET RESURFACING, High St. to Kaahumanu Ave. and KAAHUMANU AVENUE RESURFACING Main Street to Hobron Avenue Federal-Aid Project No. NH-032-1(010) Not To Scale Date: December, 2014	
SHEET No. 1 OF 1 SHEETS	

DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
NOTED BY	
ORIGINAL PLAN	