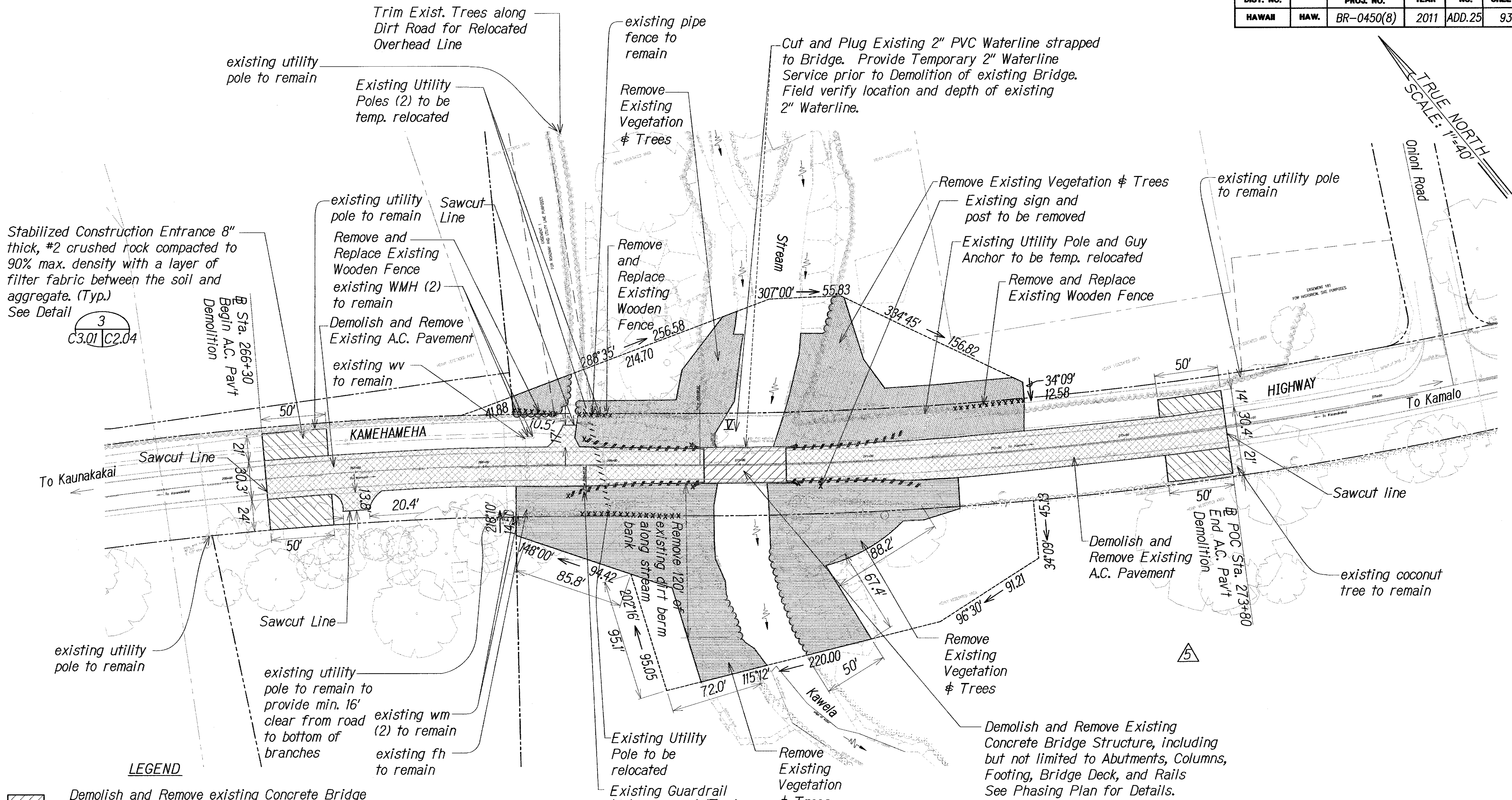


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-0450(8)	2011	ADD.25	93



- LEGEND**
- Demolish and Remove existing Concrete Bridge Structure, including but not limited to Abutments, Columns, Footings, Bridge Deck, and Rails
 - Demolish and Remove existing A.C. Pavement
 - Stabilized Construction Entrance, 8" thick #2 crushed rock compacted to 90% max. density with a layer of filter fabric between the soil and aggregate
 - Limits of Existing Vegetation & Trees to be removed

- Demolish and Remove existing Metal Guardrail
- Demolish and Remove existing Wooden Fence
- Existing Utility Pole and Cable to be temporarily relocated
- Remove existing Sign and Post
- Trim Existing Trees

DEMOLITION PLAN
SCALE: 1" = 40'

	5/03/12	Added removal of two monkeypod trees
	Date	Revision

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DEMOLITION PLAN

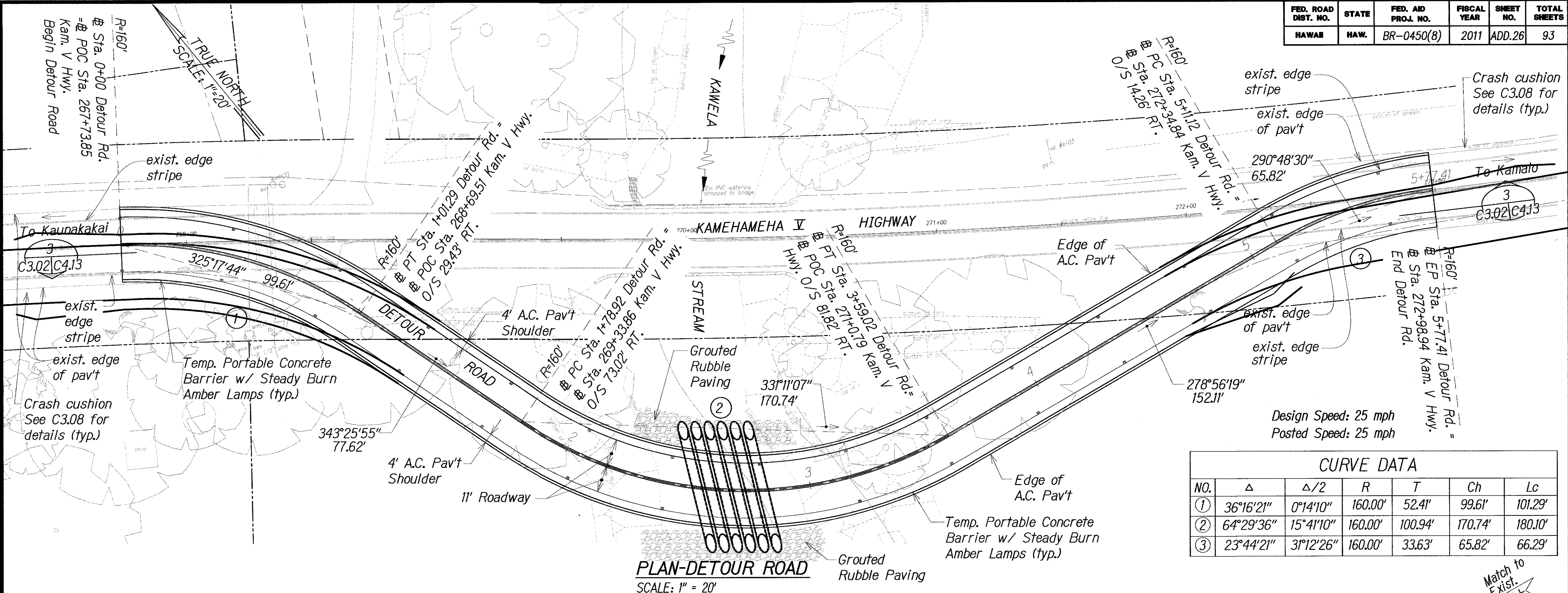
KAMEHAMEHA V HIGHWAY
Kawela Bridge Replacement
Federal Aid Project No. BR-0450(8)

Scale: AS NOTED Date: Oct. 2010

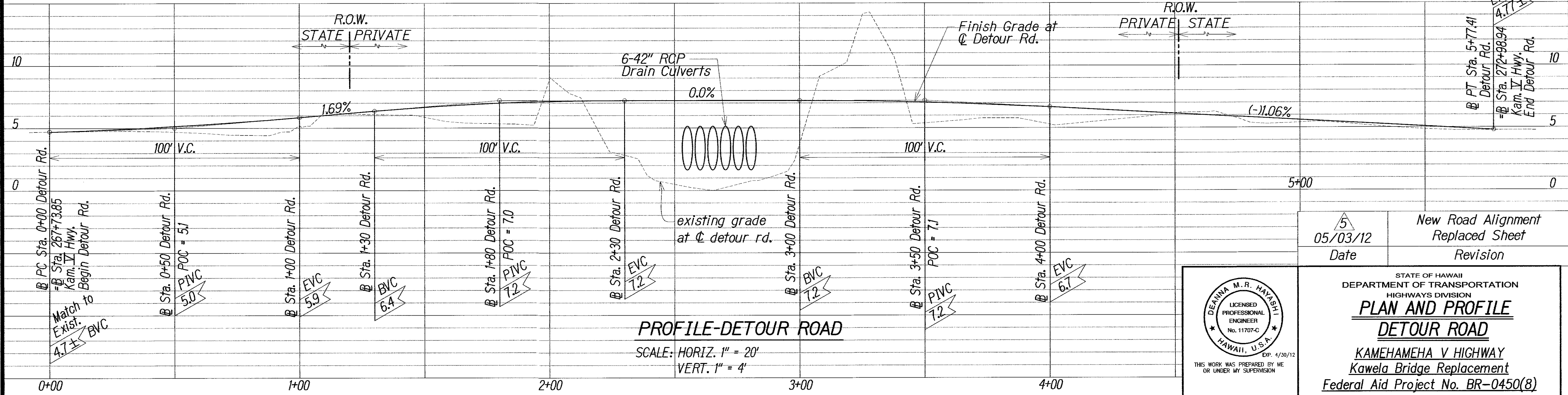
SHEET NO. C3.01 OF 93 SHEETS

"AS-BUILT"

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-0450(8)	2011	ADD.26	93



CURVE DATA						
NO.	Δ	Δ/2	R	T	Ch	Lc
①	36°16'21"	0°14'10"	160.00'	52.41'	99.61'	101.29'
②	64°29'36"	15°41'10"	160.00'	100.94'	170.74'	180.10'
③	23°44'21"	3°12'26"	160.00'	33.63'	65.82'	66.29'



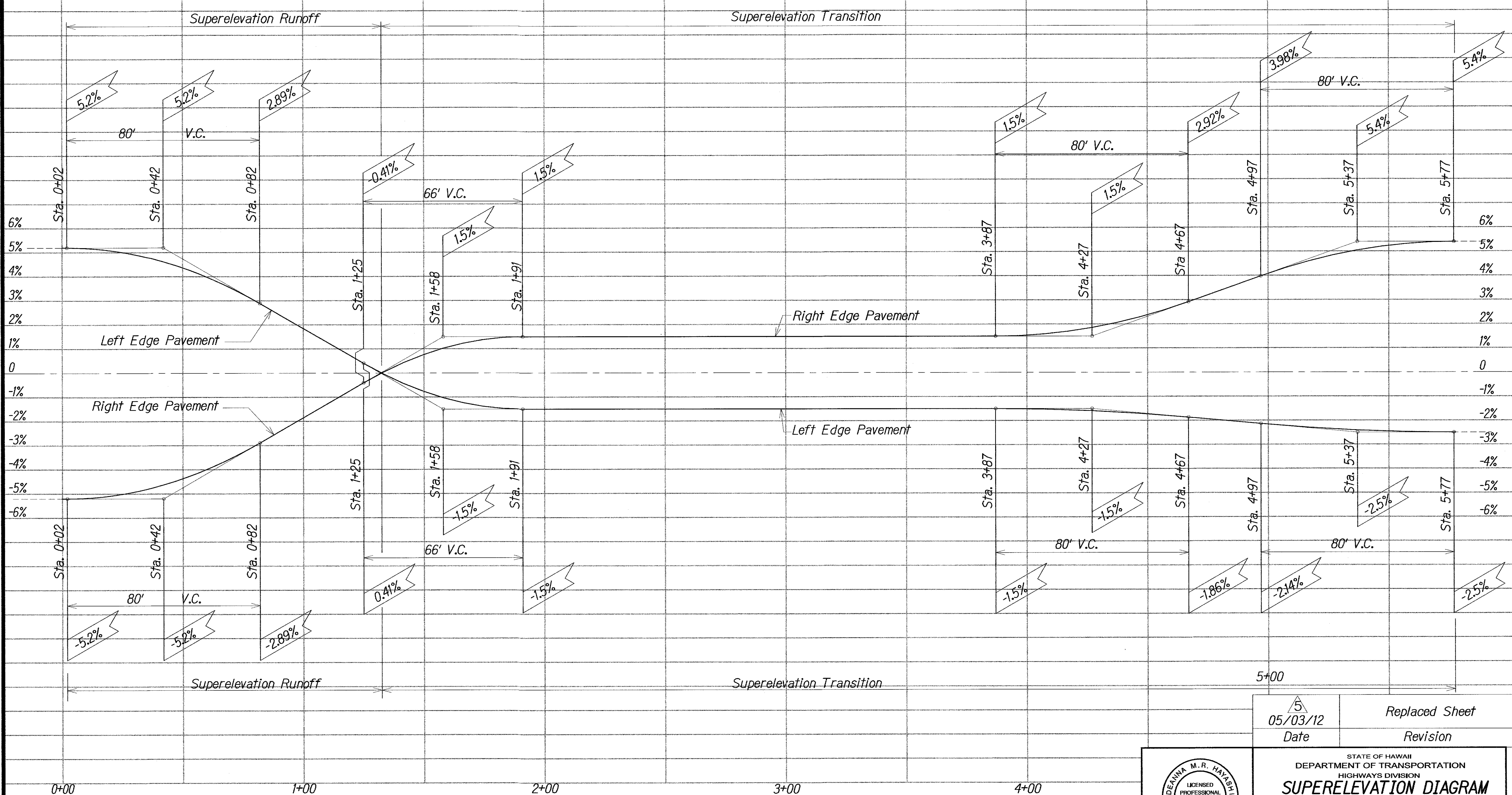
DEANNA M.R. HAYASHI
LICENSED PROFESSIONAL ENGINEER
No. 11707-C
HAWAII, U.S.A.
Exp. 4/30/12
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

5
05/03/12
Date

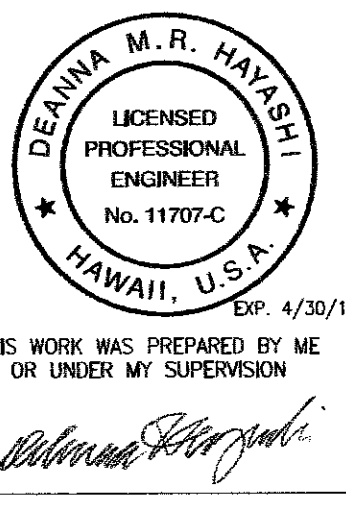
New Road Alignment
Replaced Sheet
Revision

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**PLAN AND PROFILE
DETOUR ROAD**
KAMEHAMEHA V HIGHWAY
Kawela Bridge Replacement
Federal Aid Project No. BR-0450(8)
Scale: AS NOTED Date: Oct. 2010

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-0450(8)	2011	ADD.28	93



SUPERELEVATION DIAGRAM - DETOUR ROAD
 SCALE: HORIZ. 1" = 20'
 VERT. 1" = 2'



DEANNA M.R. HAYASHI
 LICENSED PROFESSIONAL ENGINEER
 No. 11707-C
 HAWAII, U.S.A.
 Exp. 4/30/12
 THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
Deanna M.R. Hayashi

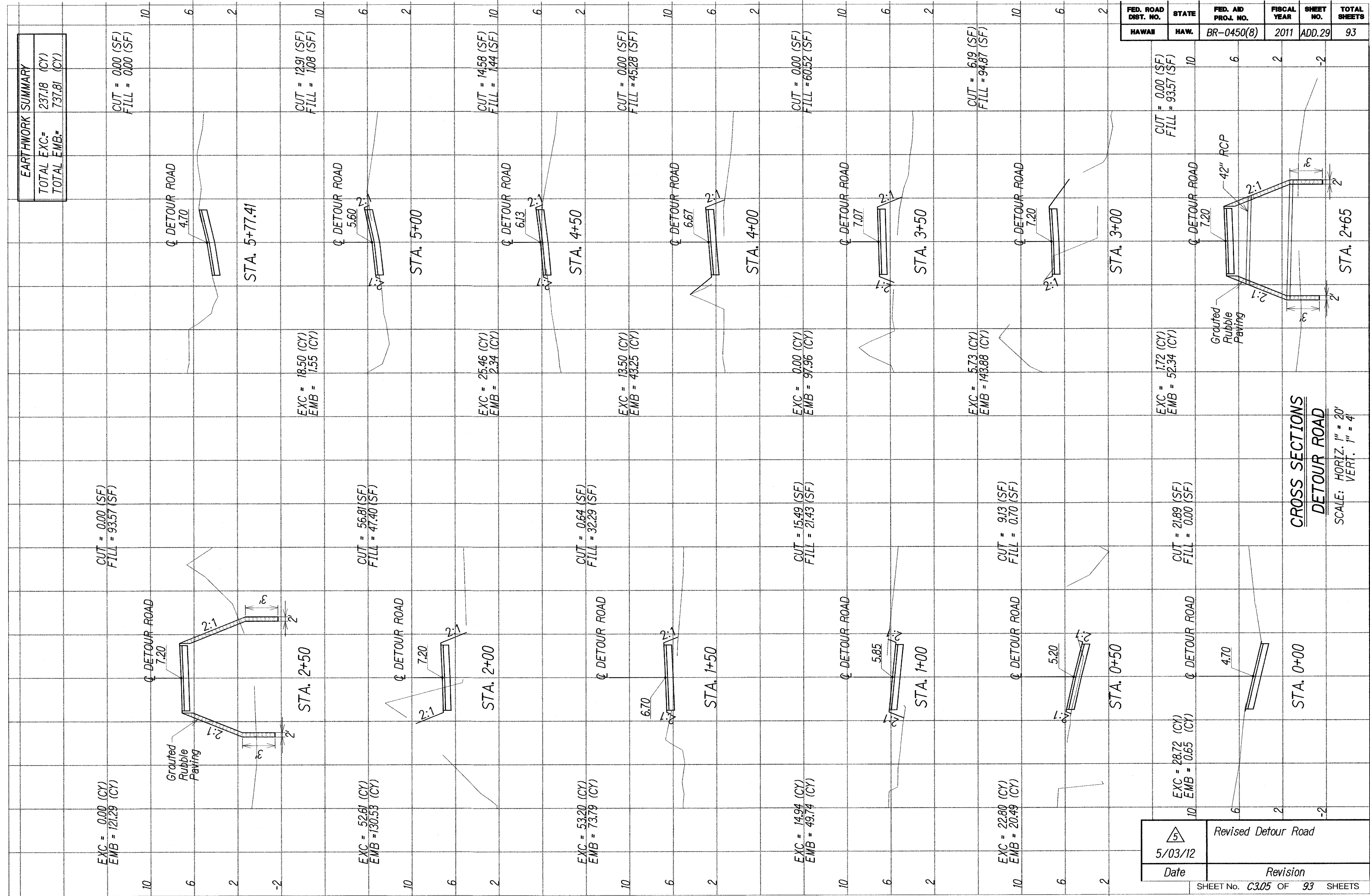
5
 05/03/12
 Date

Replaced Sheet
 Revision

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
SUPERELEVATION DIAGRAM
DETOUR ROAD
 KAMEHAMEHA V HIGHWAY
 Kawela Bridge Replacement
 Federal Aid Project No. BR-0450(8)
 Scale: AS NOTED Date: Oct. 2010

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

EARTHWORK SUMMARY	
TOTAL EXC.=	237.18 (CY)
TOTAL EMB.=	737.81 (CY)

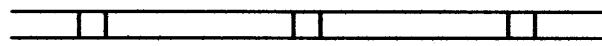
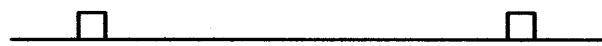


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-0450(8)	2011	30	93

SIGNS AND MARKING NOTES

- All traffic sign and pavement marking installations shall be done in accordance with the "Manual on Uniform Traffic Control Devices for Streets and Highways", 2003 Edition, as amended, and as shown on the Plans.
- Contractor shall submit material brochures for all signs and paint materials.
- The signing and/or striping Contractor shall keep one (1) set of approved plans at the project site at all times during construction work.
- Contractor shall paint temporary guidelines and outline of arrows, legends, and crosswalks with a two (2") wide brushed line on the day the roadway is opened to traffic.
- Within ten (10) days following notification of award of contract, the Contractor shall submit a list of any signing and pavement marking material which he proposes to install. The list shall be complete as to the name of manufacturer, catalog number and shall be supplemented with material brochures.
- Upon final inspection of the project, the Contractor shall submit a letter of certification for all traffic signing and pavement marking material installed.
- Signs shall be attached to brackets with 5/16" zinc plated steel bolts, nuts and washers. Signs 48" wide or larger than 10 sq. ft. in area shall be mounted on two (2) galvanized pipe post. The post shall be installed with at least one (1) foot clearance from the sign edge to the curb face.
- All traffic signs shall be reflectorized.
- Raised pavement markers shall be installed in accordance with the State Department of Transportation Standards.
- Location of "STOP" sign:
 - Install "STOP" sign at curb tangent point.
 - Install "STOP" sign on metal street light standard if a standard is located within 10 feet of curb return.
 - Install "STOP" sign in front of utility pole if a pole is located within 10 feet of curb return.
- Pavement work and symbol markings shall be in accordance with the State Department of Transportation Standards.
- The Contractor shall use thermoplastic material for all crosswalks, stop bars, pavement arrows, center lines, lane lines, arc lines channelized traffic islands, and legends.

STRIPING LEGEND

- 
- 4" Double Solid Yellow Stripe (Thermoplastic Extrusion) with Type D Raised Pavement Markers at 20'-0" O.C.
- 
- 4" Single Solid White Edge Stripe (Thermoplastic Extrusion) with Type C Raised Pavement Markers at 40'-0" O.C.
- 
- Type A Raised Pavement Markers at 40'-0" O.C. and Type C Raised Pavement Markers at 40'-0" O.C.



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Deanna M.R. Hayashi

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

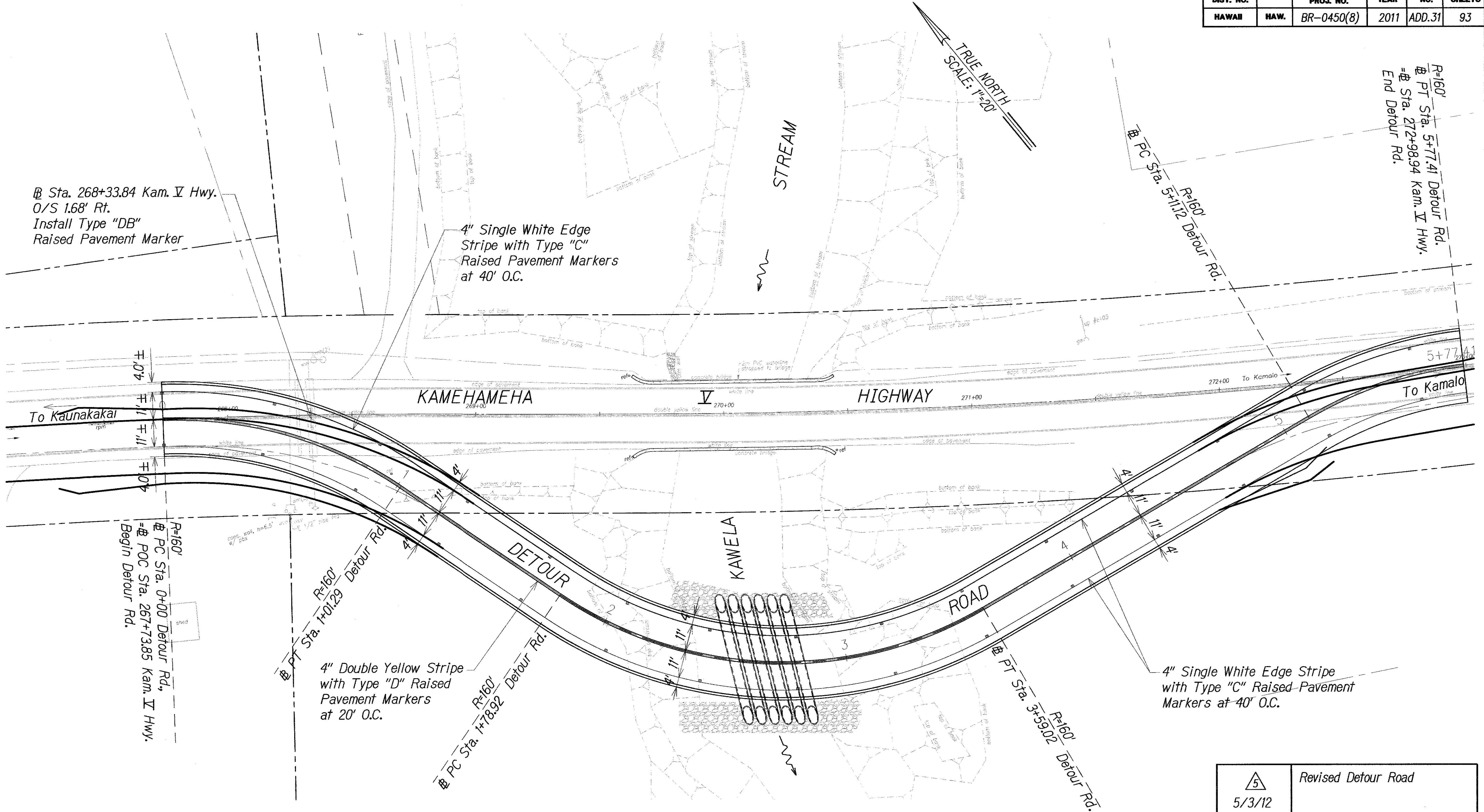
**STRIPING LEGEND
AND NOTES**

KAMEHAMEHA V HIGHWAY
Kawela Bridge Replacement
Federal Aid Project No. BR-0450(8)

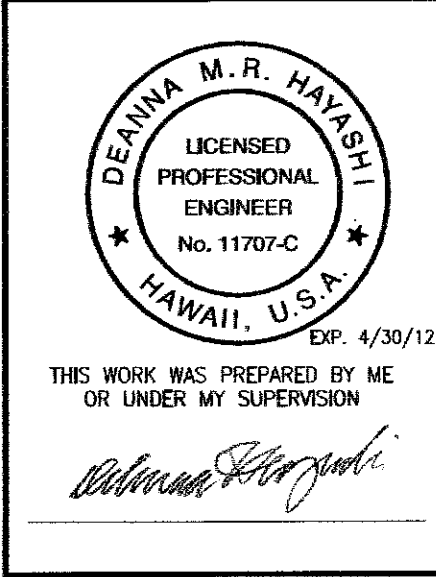
Scale: AS NOTED Date: Oct. 2010

SHEET No. C306 OF 93 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-0450(8)	2011	ADD.31	93

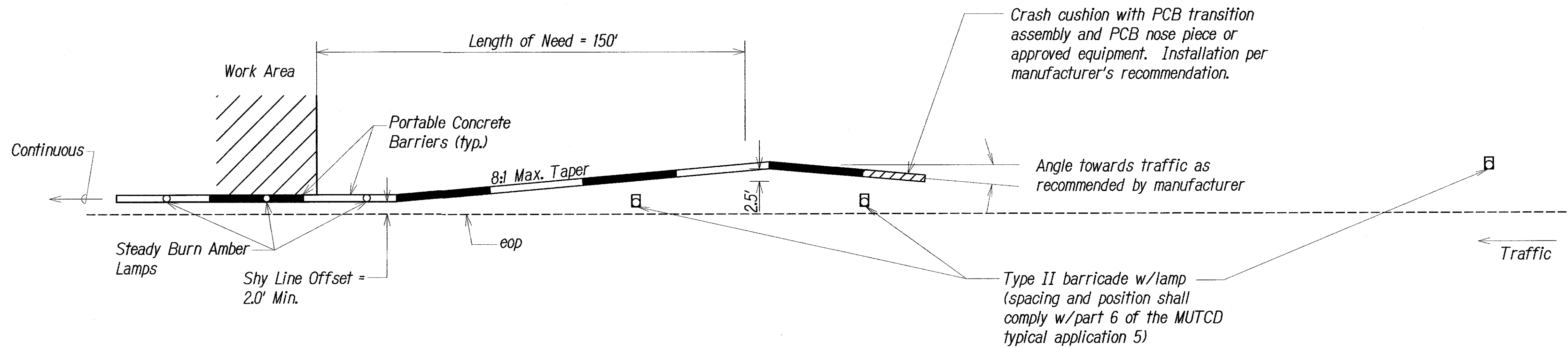


STRIPING PLAN
SCALE: 1" = 20'



5	Revised Detour Road
5/3/12	
Date	Revision
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION STRIPING PLAN DETOUR ROAD KAMEHAMEHA V HIGHWAY Kawela Bridge Replacement Federal Aid Project No. BR-0450(8)	
Scale: AS NOTED	Date: Oct. 2010

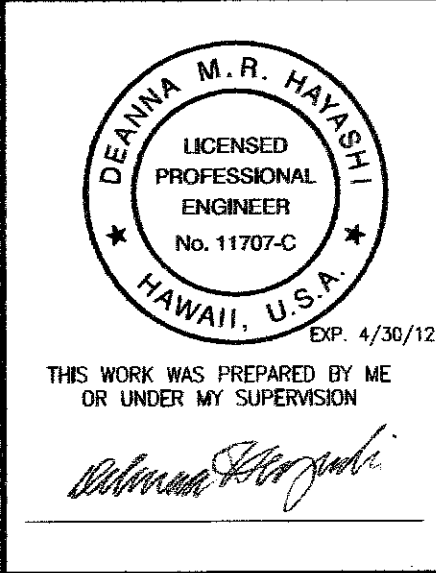
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-0450(8)	2011	ADD.32	93



Temporary Detour Road Design Requirements:
 ADT (2008) = 1369
 V=25 MPH

TYPICAL DETAIL-PORTABLE CONCRETE BARRIER END TREATMENT
 NOT TO SCALE

	Revised Length of Need and Shyline lengths
05/03/12	
Date	Revision



STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

MISCELLANEOUS DETAILS
DETOUR ROAD

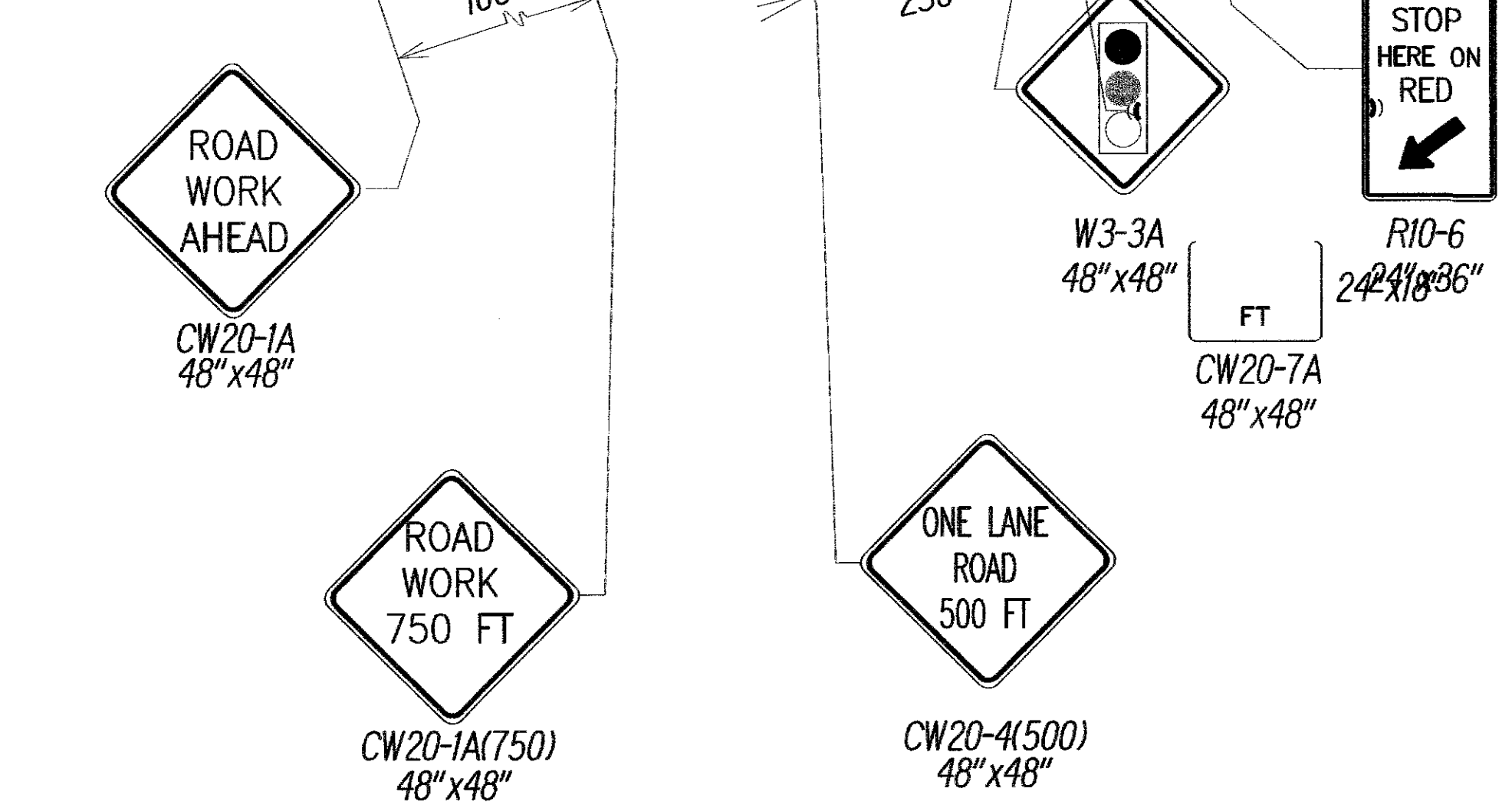
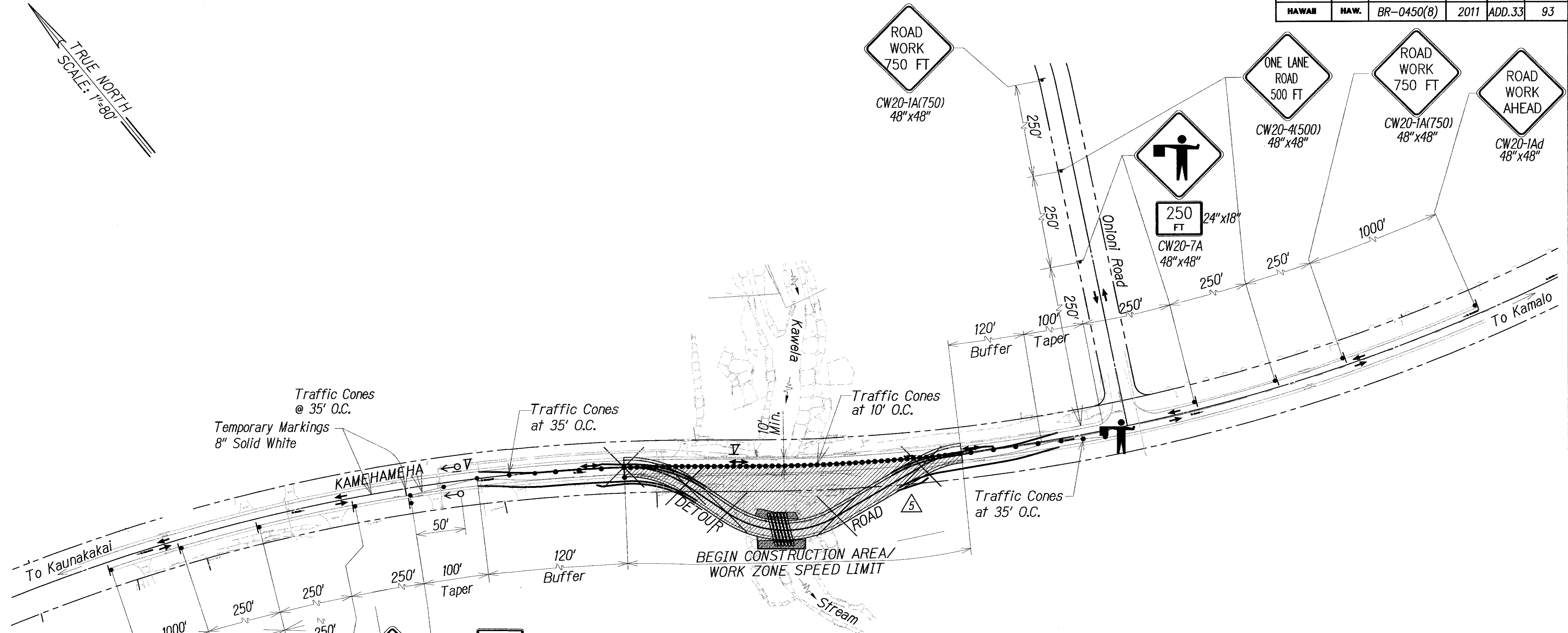
KAMEHAMEHA V. HIGHWAY
 Kawela Bridge Replacement
 Federal Aid Project No. BR-0450(8)

Scale: AS NOTED Date: Oct. 2010

SHEET No. C3.08 OF 93 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-0450(8)	2011	ADD.33	93

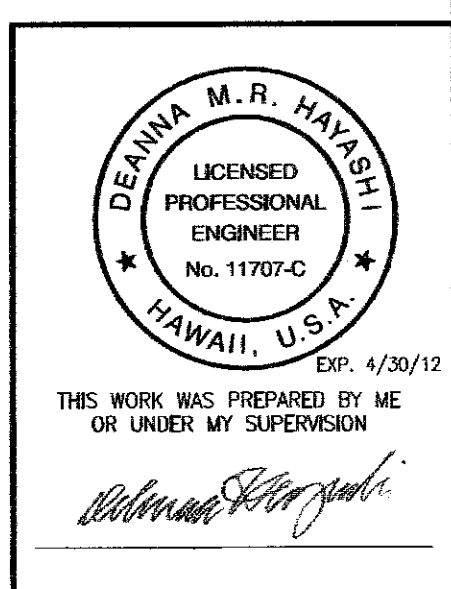
TRUE NORTH
SCALE: 1"=80'



PHASE A
TRAFFIC CONTROL PLAN
SCALE: 1" = 80'

LEGEND

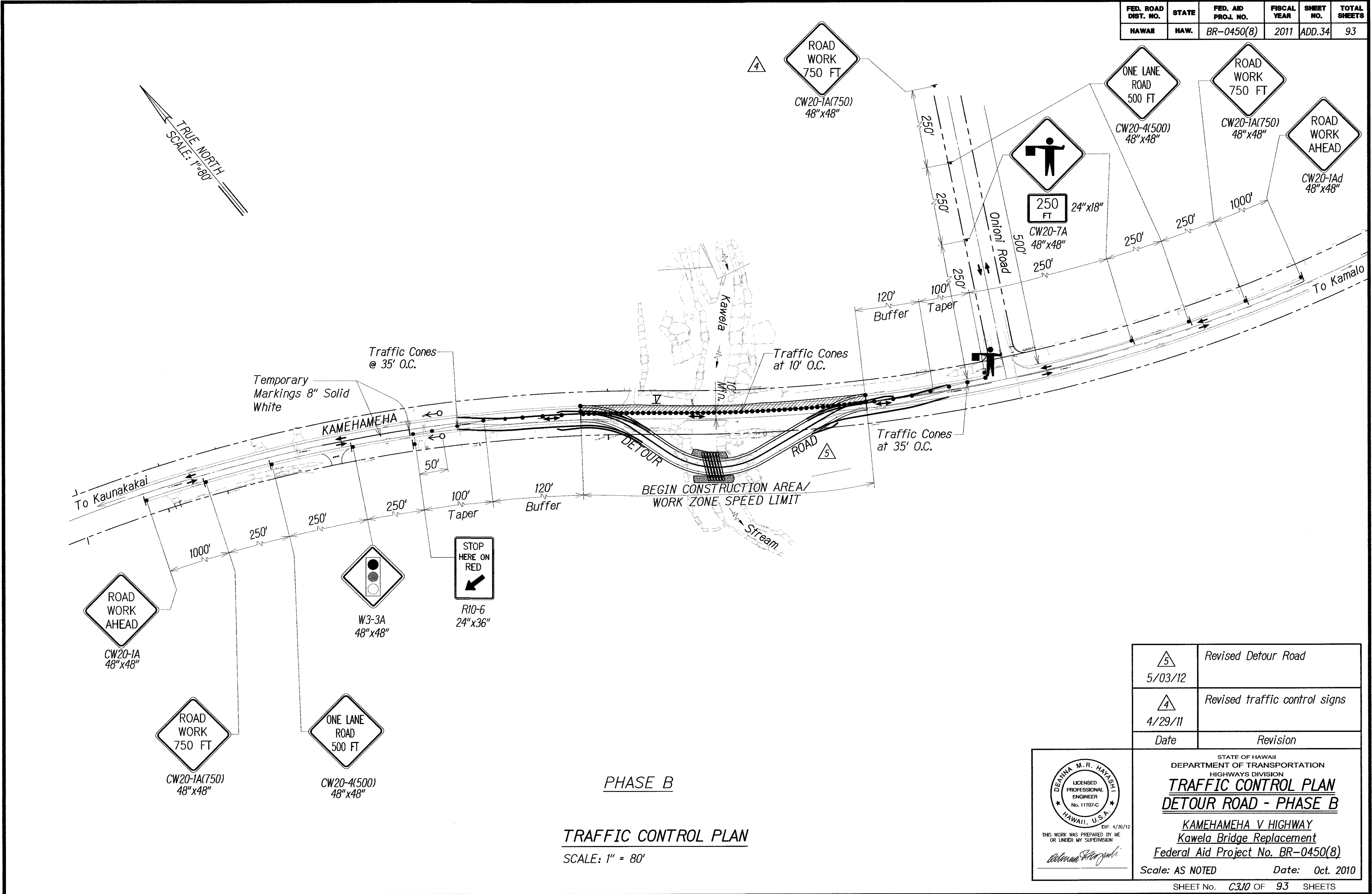
- Retroreflective Cone or Type I Barricade with steady burn amber light
- Direction of Traffic Flow
- Retroreflective Sign w/One Steel Post
- Retroreflective Sign w/Two Steel Posts
- Flagger/Police Officer
- ▨ Work Area



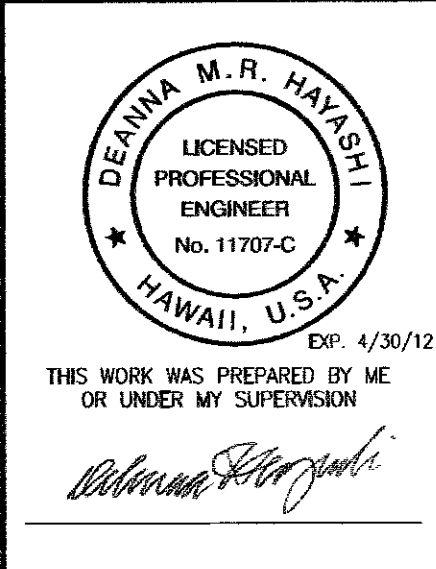
5	Revised Detour Road
5/03/12	
4	Revised traffic control signs
4/29/11	
Date	Revision
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION TRAFFIC CONTROL PLAN DETOUR ROAD - PHASE A KAMEHAMEHA V. HIGHWAY Kawela Bridge Replacement Federal Aid Project No. BR-0450(8) Scale: AS NOTED Date: Oct. 2010	
SHEET No. C3.09 OF 93 SHEETS	

"AS-BUILT"

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-0450(8)	2011	ADD.34	93



5	Revised Detour Road
5/03/12	
4	Revised traffic control signs
4/29/11	
Date	Revision



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
TRAFFIC CONTROL PLAN
DETOUR ROAD - PHASE B
KAMEHAMEHA V HIGHWAY
Kawela Bridge Replacement
Federal Aid Project No. BR-0450(8)
Scale: AS NOTED Date: Oct. 2010