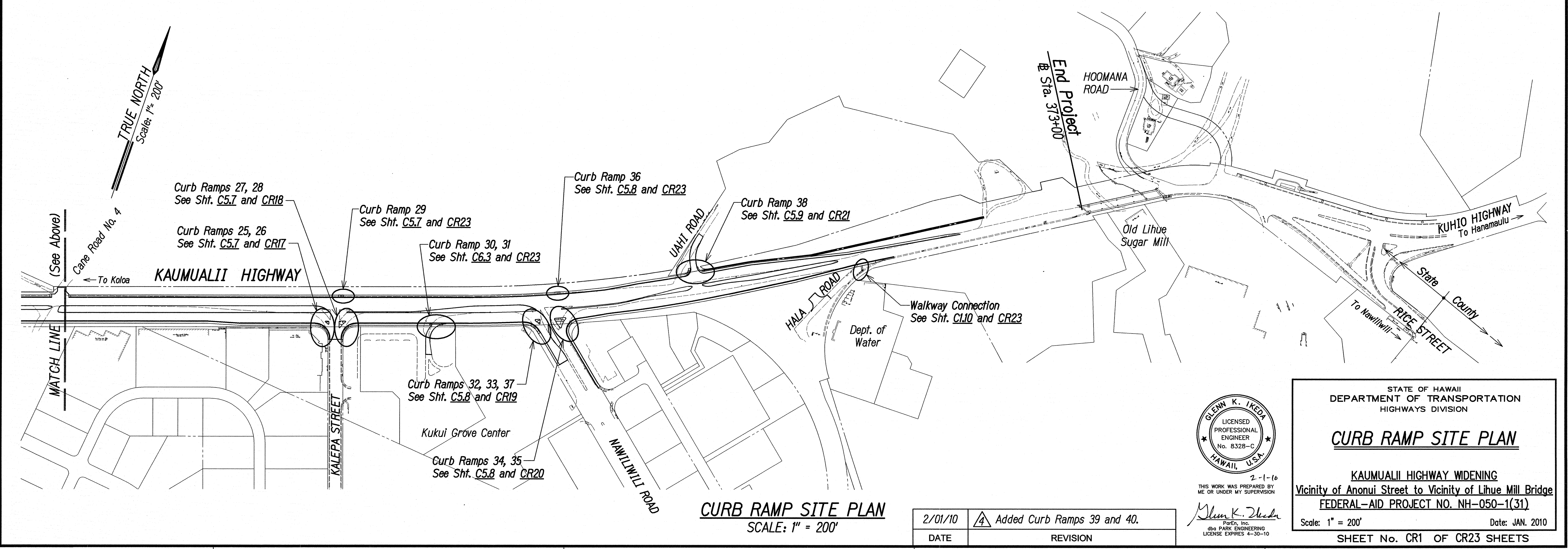
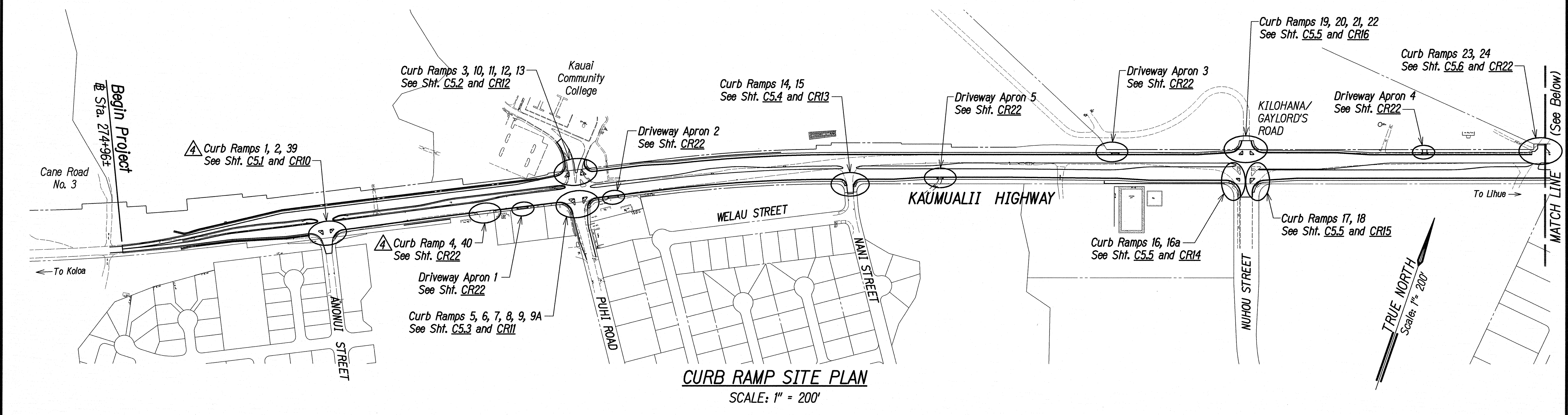
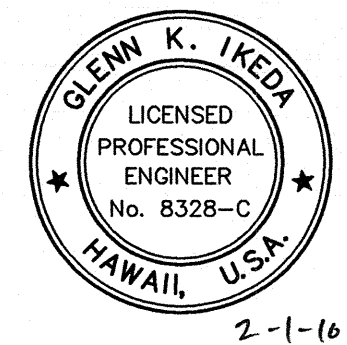


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-050-1(31)	2009	C.O.85	452



DATE	1/07/10
SURVEY PLOTTED BY	
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QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	

100% STATE DOT/KAUAI/VISSA PERSONNEL/PLANS/001-CR1-SITE.dwg 1/07/10



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
 Glenn K. Ikeda
 P.E., Inc.
 d/b/a PARK ENGINEERING
 LICENSE EXPIRES 4-30-10

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

CURB RAMP SITE PLAN

 KAUMUALII HIGHWAY WIDENING
 Vicinity of Anonui Street to Vicinity of Lihue Mill Bridge
 FEDERAL-AID PROJECT NO. NH-050-1(31)
 Scale: 1" = 200'
 Date: JAN. 2010
 SHEET No. CR1 OF CR23 SHEETS

2/01/10	Added Curb Ramps 39 and 40.
DATE	REVISION

CURB RAMP AND SIDEWALK NOTES:

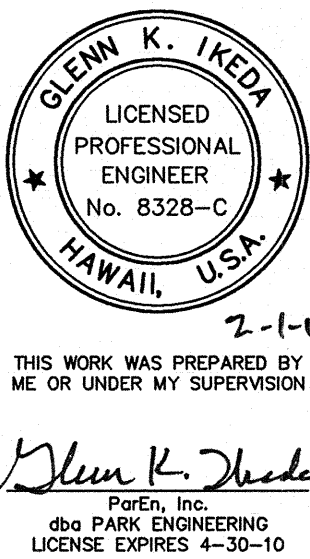
- These typical details are intended as curb ramp guidelines for design and construction. These guidelines shall not replace site specific curb ramp plans.
- A 2% maximum cross slope shall be maintained in the direction of pedestrian traffic.
- Subject to field conditions, the Engineer shall determine the final location of curb ramps.
- All pullboxes shall be installed or relocated away from the curb ramp and within the sidewalk/unpaved area to the maximum extent feasible.
- 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.
- Transitions from ramps to gutters and roadways shall be flush.
- Curb ramps and sidewalks shall be constructed to eliminate ponding to the maximum extent feasible.
- 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.
- 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.
- 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.
- Construction joints are required to join curb ramps with sidewalks.
- Unless otherwise noted, new gutters are required as shown.
- All curb ramps and sidewalks shall be reinforced with 6x6 W1.4/W1.4 welded wire fabric supported on blocks.
- Surface of sidewalks and curb ramps shall be firm, stable, and slip-resistant. This includes the surfaces of pullboxes, valve covers, manhole covers, etc.
- Bed course material is required for curb ramps, sidewalks, and gutters.
- 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.
- 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.
- If possible, install utility poles, fire hydrants, light poles, sign posts, pullboxes, etc. off of sidewalk but within the right-of-way.

- 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.
- 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 curb ramps shall be based on 1/4 inch per 10 ft. (±0.2%). Remedial measures will not be accepted.

Table of Curb Ramps

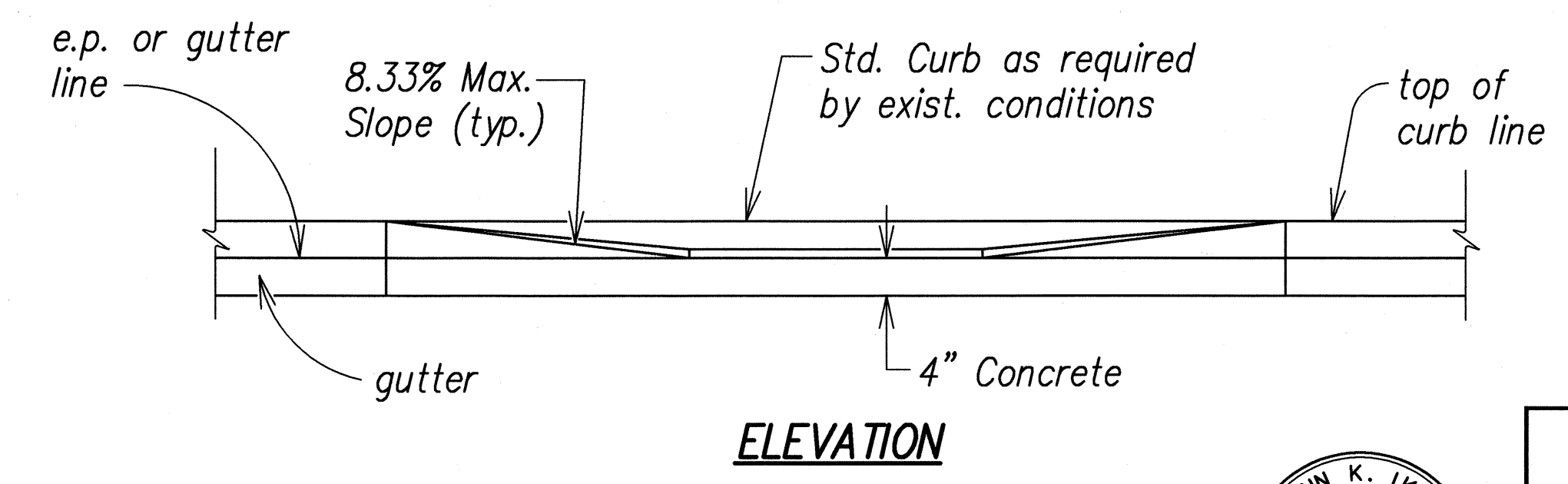
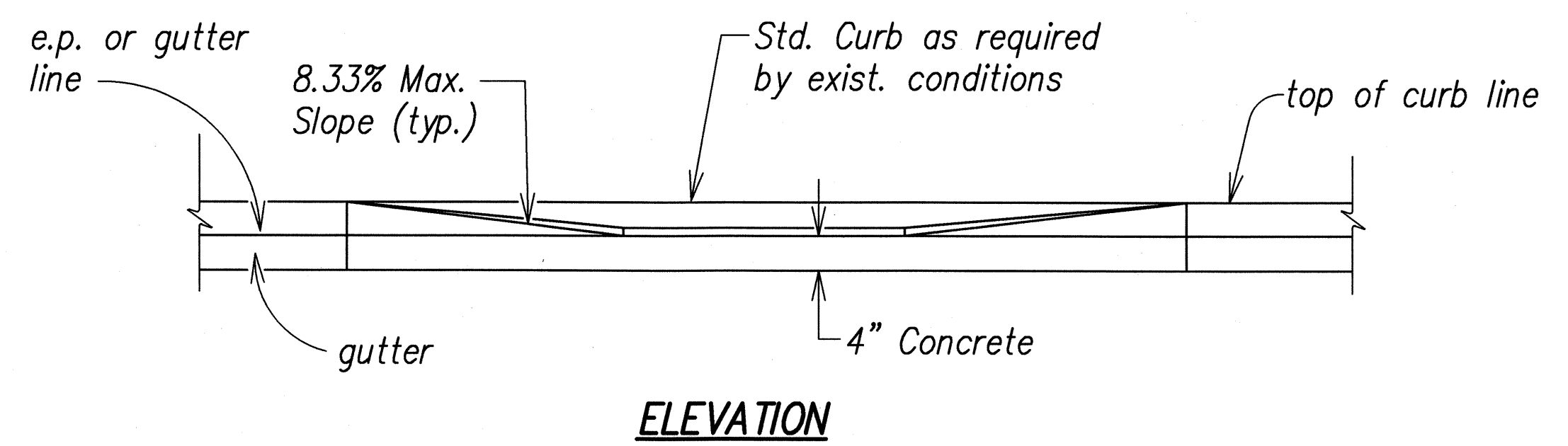
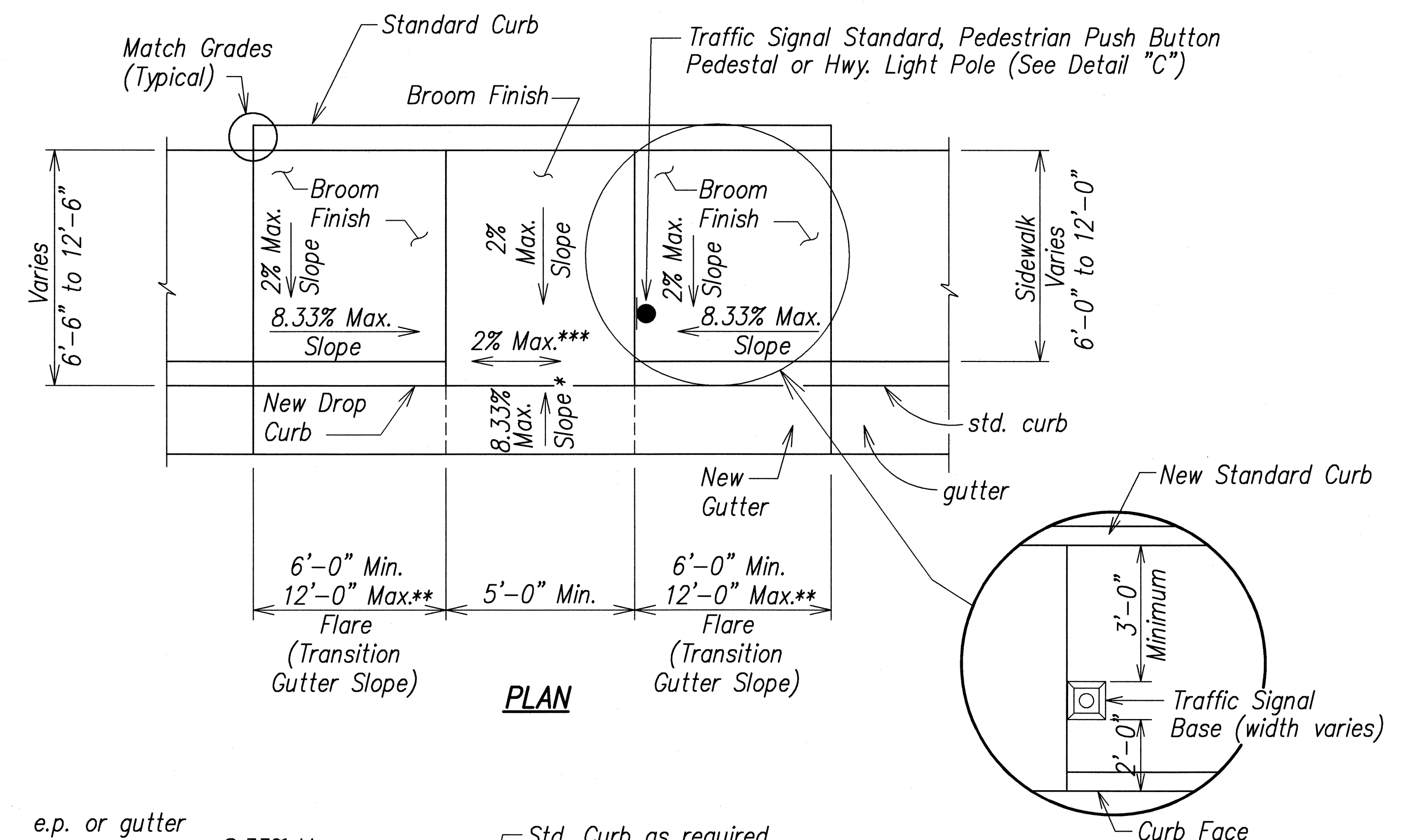
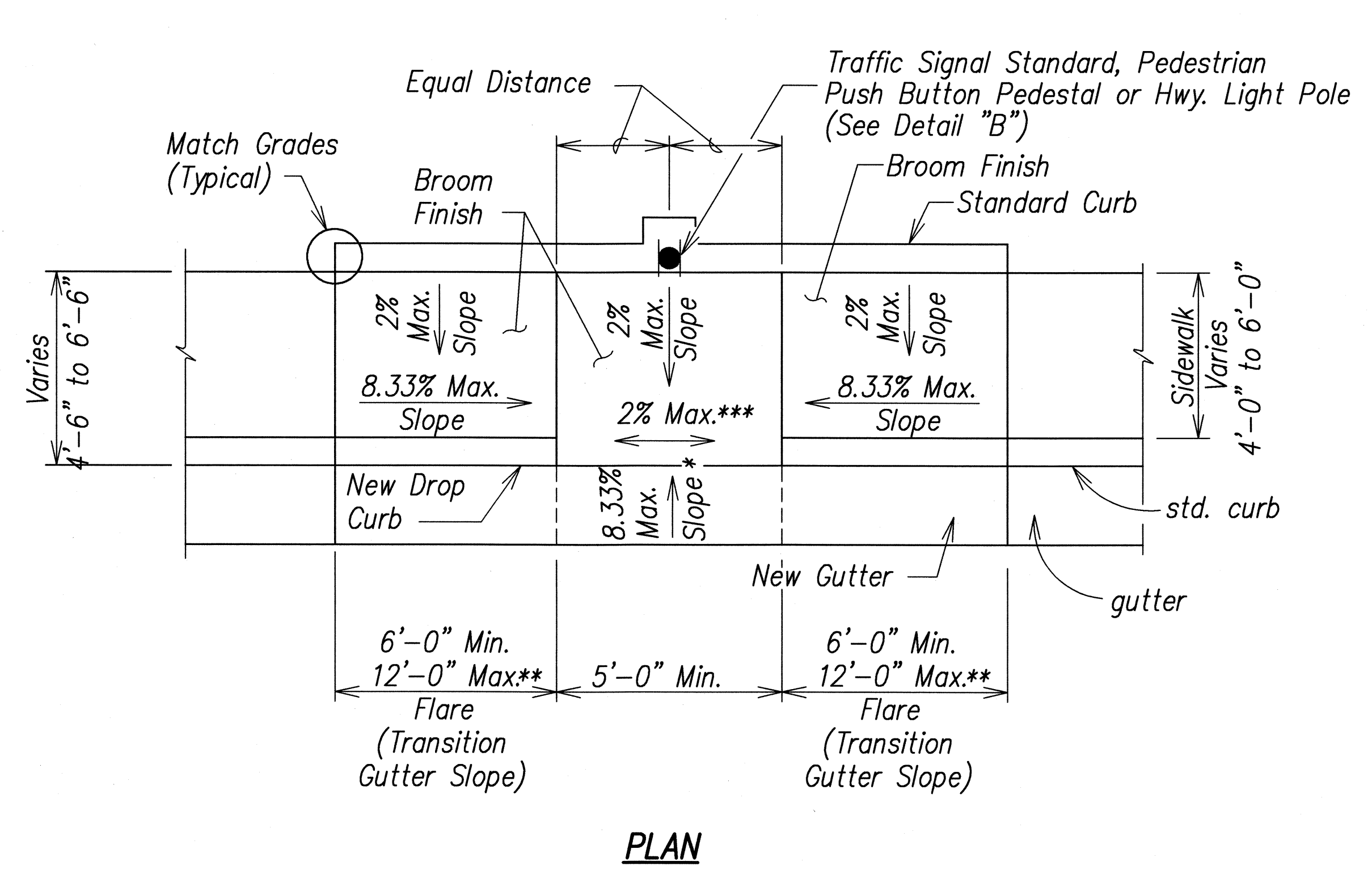
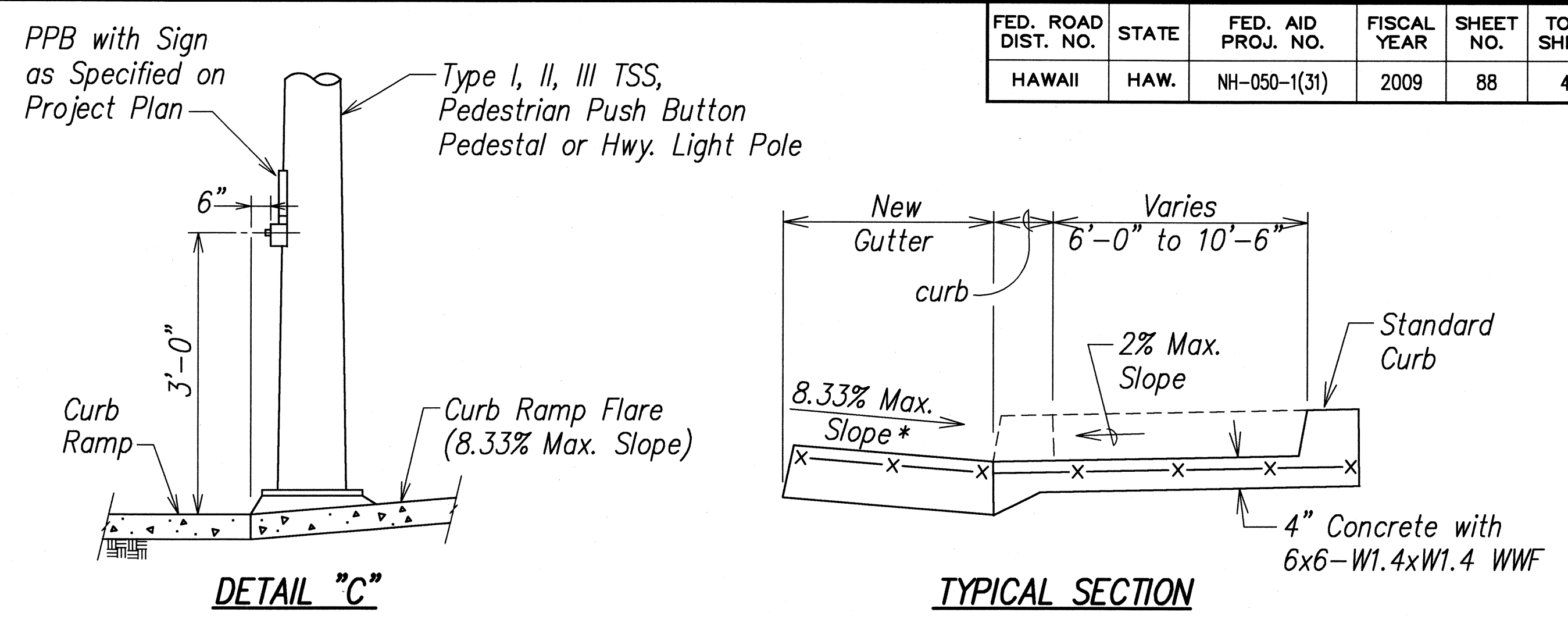
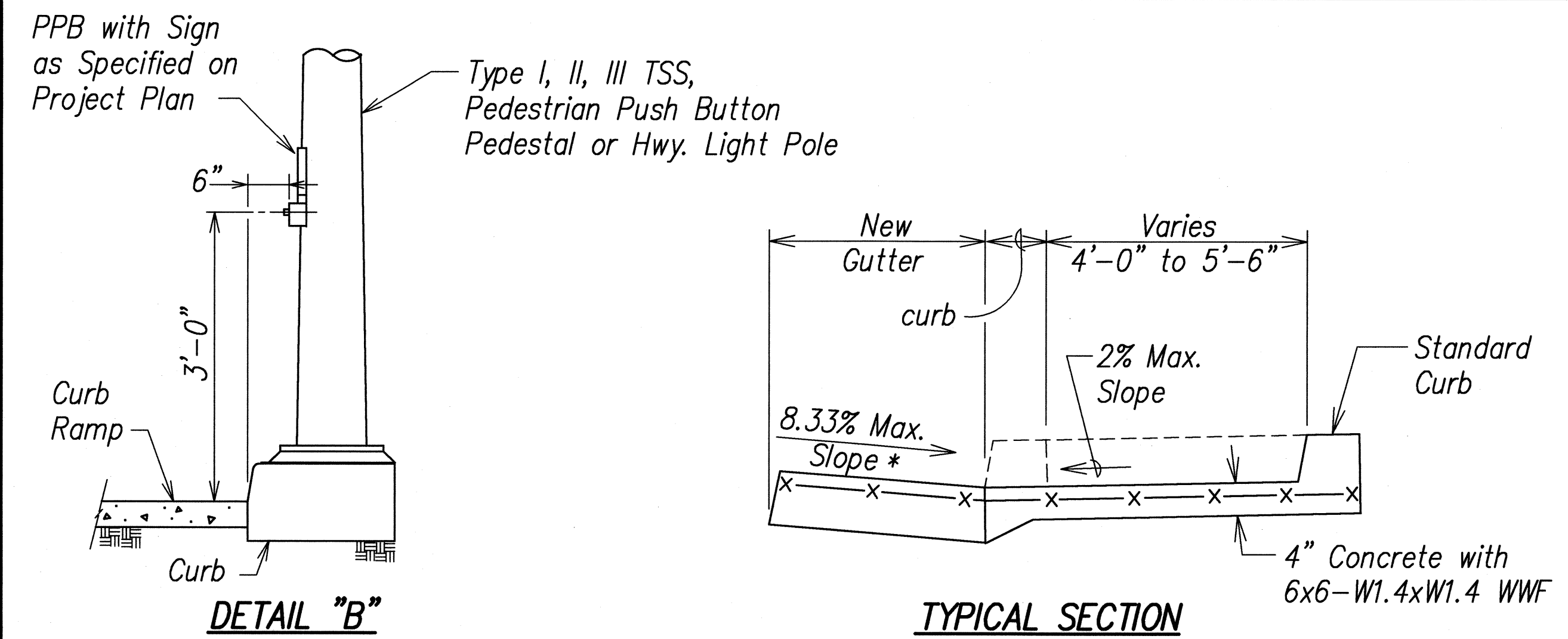
Ramp (1) Designation	(2) Ramp Type	(3) Plan Location	Site Specific Detail Sheet	Ramp (1) Designation	(2) Ramp Type	(3) Plan Location	Site Specific Detail Sheet
CR-1	"C"	Sta. 282+96 Rt.	CR10	CR-22	"B" Modified	Sta. 320+46 Lt.	CR16
CR-2	"C"	Sta. 283+34 Rt.	CR10	CR-23	"F"	Sta. 331+42 Lt.	CR22
CR-3	"F"	Sta. 292+60 Lt.	CR12	CR-24	"F"	Sta. 332+18 Lt.	CR22
CR-4	"F"	Sta. 289+92 Rt.	CR21	* CR-25	"B"	Sta. 342+33 Rt.	CR17
CR-5	Combination	Sta. 292+83 Rt.	CR11	CR-26	"C"	Sta. 342+50 Rt.	CR17
CR-6	"C"	Sta. 293+07 Rt.	CR11	* CR-27	"C" Modified	Sta. 343+03 Rt.	CR18
CR-7	"C" Modified	Sta. 293+53 Rt.	CR11	CR-28	"B"	Sta. 343+25 Rt.	CR18
CR-8	Combination	Sta. 293+75 Rt.	CR11	CR-29	"B" Modified	Sta. 343+00 Lt.	CR23
* CR-9	"F"	Sta. 0+82 Puhī Lt.	CR11	CR-30	"D"	Sta. 346+60 Rt.	CR23
CR-9A	"F"	Sta. 1+00 Puhī Rt.	CR11	CR-31	"D"	Sta. 347+02 Rt.	CR23
CR-10	Combination	Sta. 292+79 Lt.	CR12	CR-32	"B" Modified	Sta. 350+71 Rt.	CR19
CR-11	"C"	Sta. 293+00 Lt.	CR12	CR-33	"C"	Sta. 350+90 Rt.	CR19
CR-12	"C" Modified	Sta. 293+57 Lt.	CR12	CR-34	"C" Modified	Sta. 351+74 Rt.	CR20
CR-13	Combination	Sta. 293+80 Lt.	CR12	CR-35	"B" Modified	Sta. 352+09 Rt.	CR20
* CR-14	"B" Modified	Sta. 304+04 Rt.	CR13	CR-36	"B" Modified	Sta. 351+74 Lt.	CR23
CR-15	Combination	Sta. 304+48 Rt.	CR13	CR-37	"F"	Sta. 0+90 Nawiliwili Rt.	CR21
CR-16	"B" Modified	Sta. 319+51 Rt.	CR14	CR-38	Combination	Sta. 357+07 Lt.	CR21
CR-16a	"C"	Sta. 319+78 Rt.	CR14	CR-39	Combination	Sta. 283+53 Rt.	CR10
CR-17	"C" Modified	Sta. 320+29 Rt.	CR15	CR-40	"F"	Sta. 357+07 Lt.	CR22
CR-18	Combination	Sta. 320+50 Rt.	CR15				
CR-19	Combination	Sta. 319+70 Lt.	CR16	DW-1	--	Sta. 291+04 Rt.	CR22
CR-20	"C"	Sta. 319+89 Lt.	CR16	DW-2	--	Sta. 294+68 Rt.	CR22
CR-21	"C" Modified	Sta. 320+28 Lt.	CR16	DW-3	--	Sta. 314+84 Lt.	CR22
				DW-4	--	Sta. 327+18 Lt.	CR22
				DW-5	--	Sta. 307+85 Rt.	CR22

- (1) CR = Curb Ramp; DW = Driveway Apron.
(2) See Sheets CR3 to CR9 for Typical Curb Ramp Details.
(3) Approximate station.
(*) Technical Infeasibility Statement filed with Disability and Communication Access Board.



2/01/10	Added Curb Ramps 39 and 40.
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
CURB RAMP & SIDEWALK NOTES	
KAUMUALII HIGHWAY WIDENING Vicinity of Anonui Street to Vicinity of Lihue Mill Bridge FEDERAL-AID PROJECT NO. NH-050-1(31)	
Scale: None	Date: JAN. 2010
SHEET No. CR2 OF CR23 SHEETS	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-050-1(31)	2009	88	452



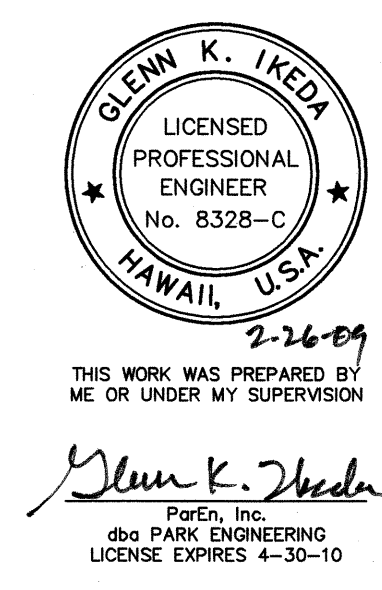
CURB RAMP - TYPE "B"

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



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL CURB RAMP DETAILS

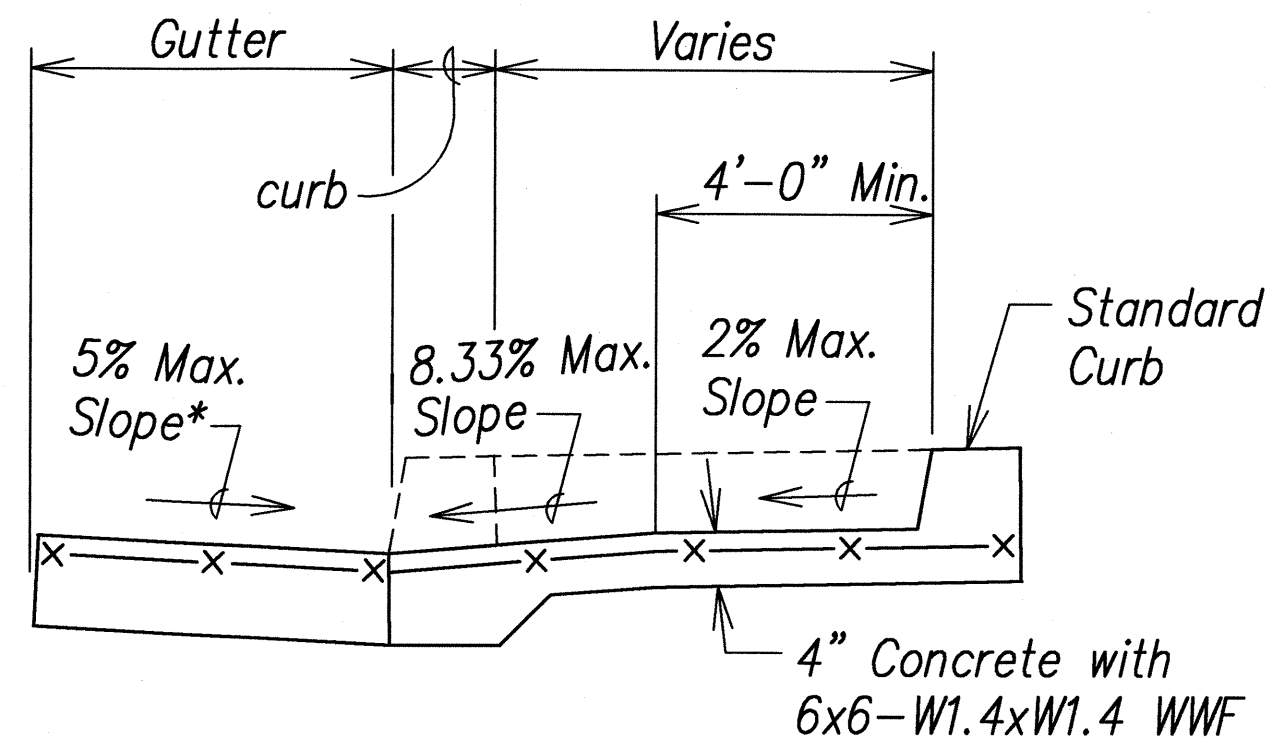
KAUMUALII HIGHWAY WIDENING
Vicinity of Anonui Street to Vicinity of Lihue Mill Bridge
FEDERAL-AID PROJECT NO. NH-050-1(31)
Scale: None Date: FEB. 2009
SHEET No. CR4 OF CR23 SHEETS

LIB: STATE DOT\HAWAII\PROJECTS\REVISION PLANS\NH-050-1(31)\CR4.dwg 11/25/08

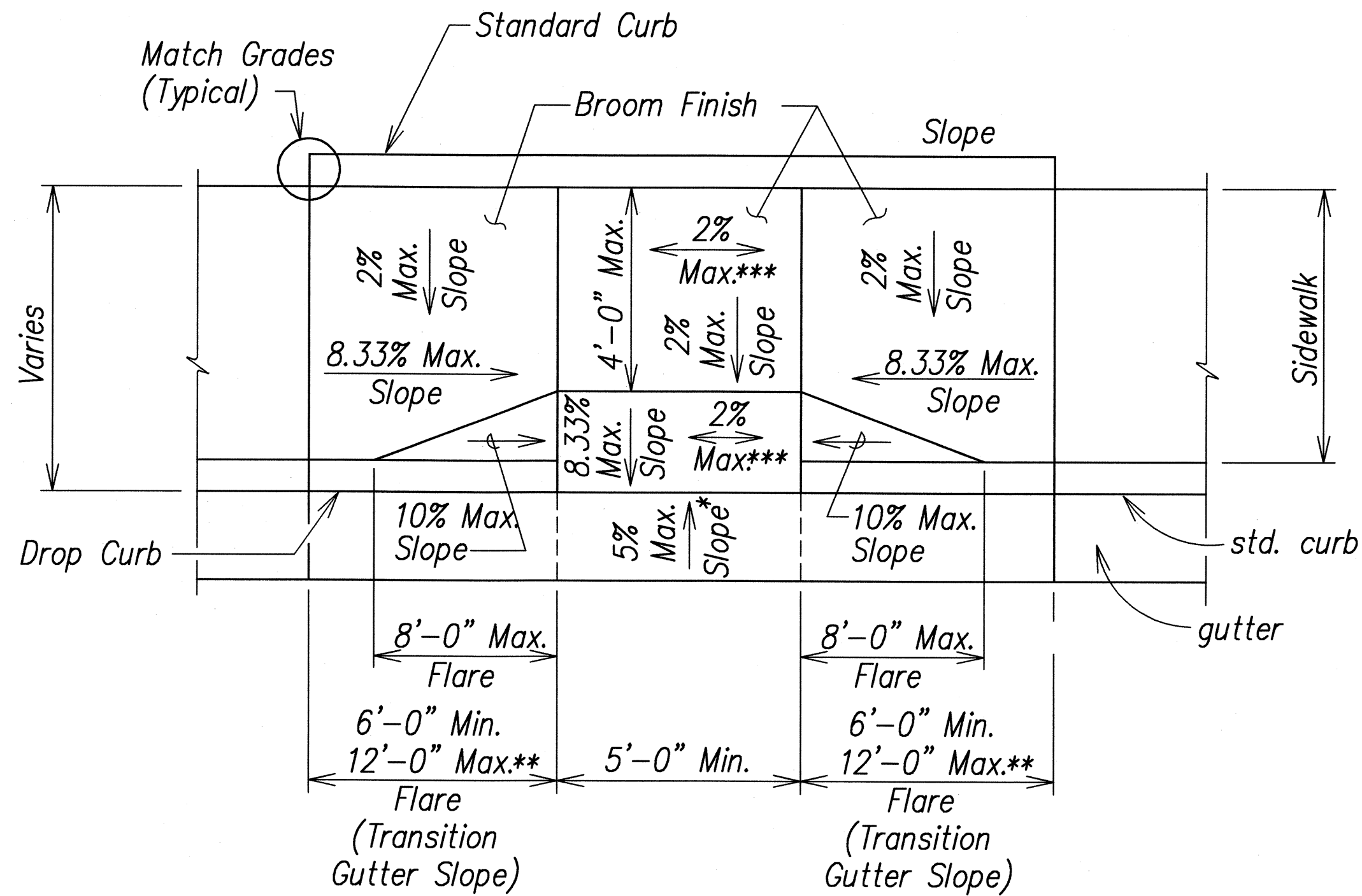
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NOTE BOOK	
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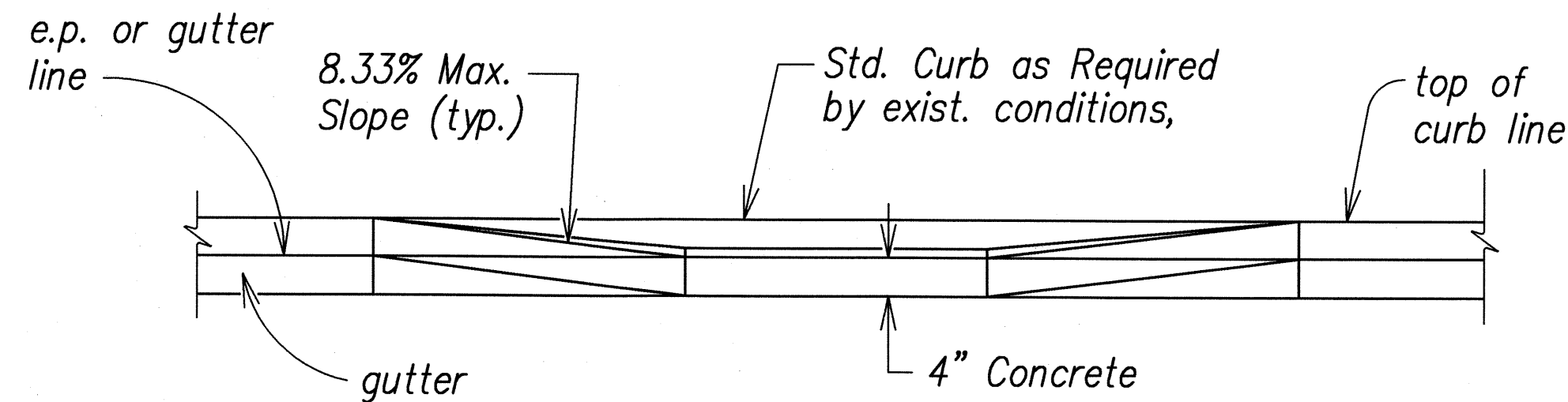
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HAWAII	HAW.	NH-050-1(31)	2009	89	452



TYPICAL SECTION



PLAN



ELEVATION

CURB RAMP - COMBINATION

* 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 a Technical Infeasibility (TI) Statement



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION
Glenn K. Ikeda
P.E., Inc.
480 PARK ENGINEERING
LICENSE EXPIRES 4-30-10

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL CURB RAMP DETAILS

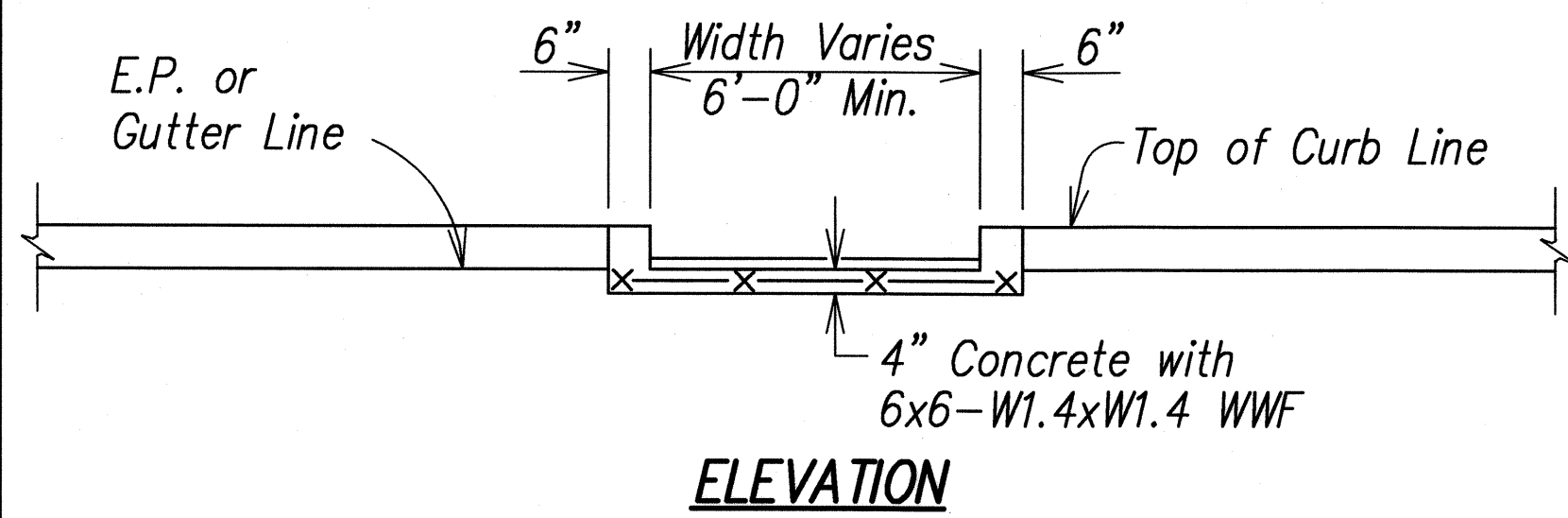
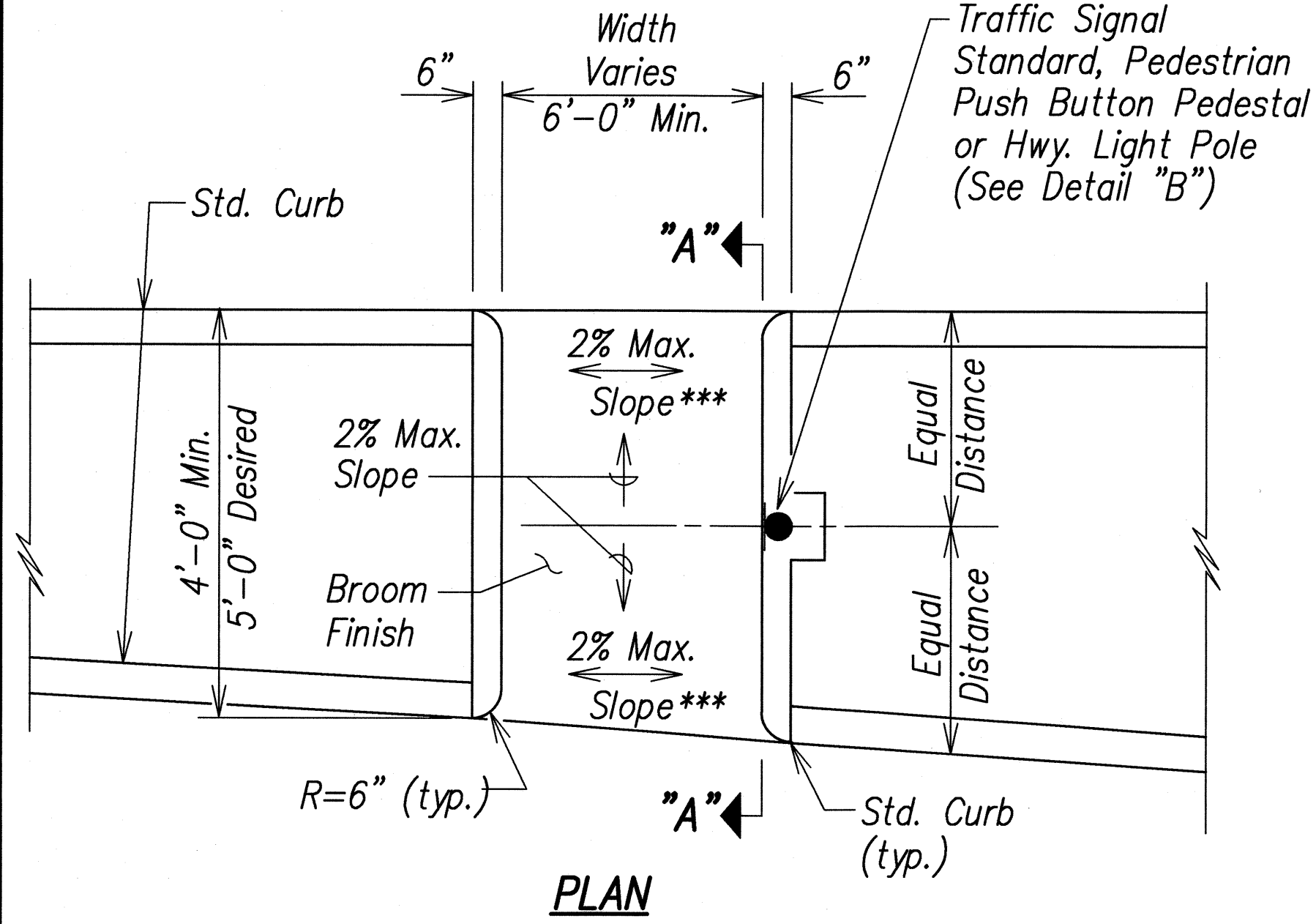
KAUMUALII HIGHWAY WIDENING
Vicinity of Anonui Street to Vicinity of Lihue Mill Bridge
FEDERAL-AID PROJECT NO. NH-050-1(31)

Scale: None
Date: FEB. 2009

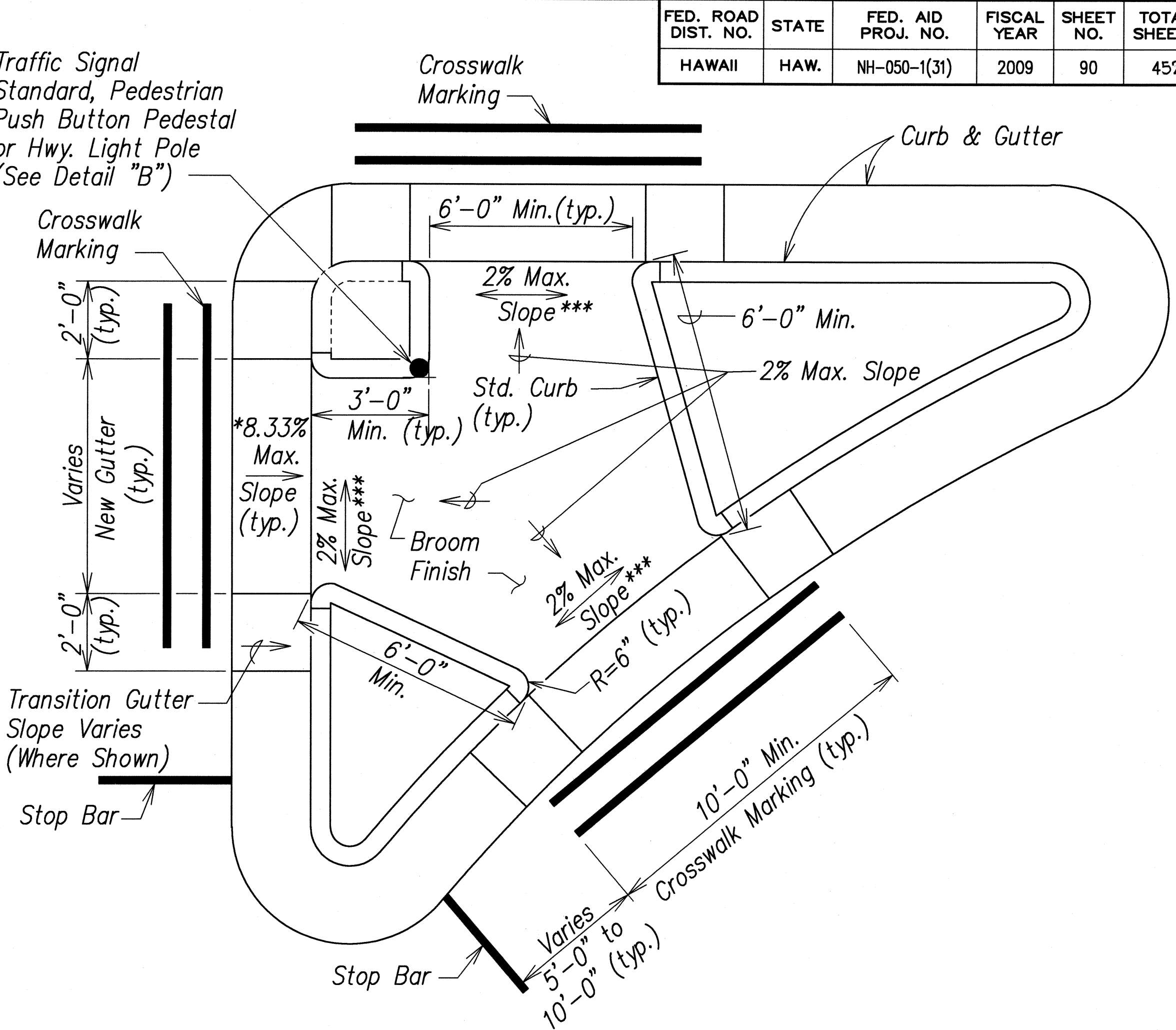
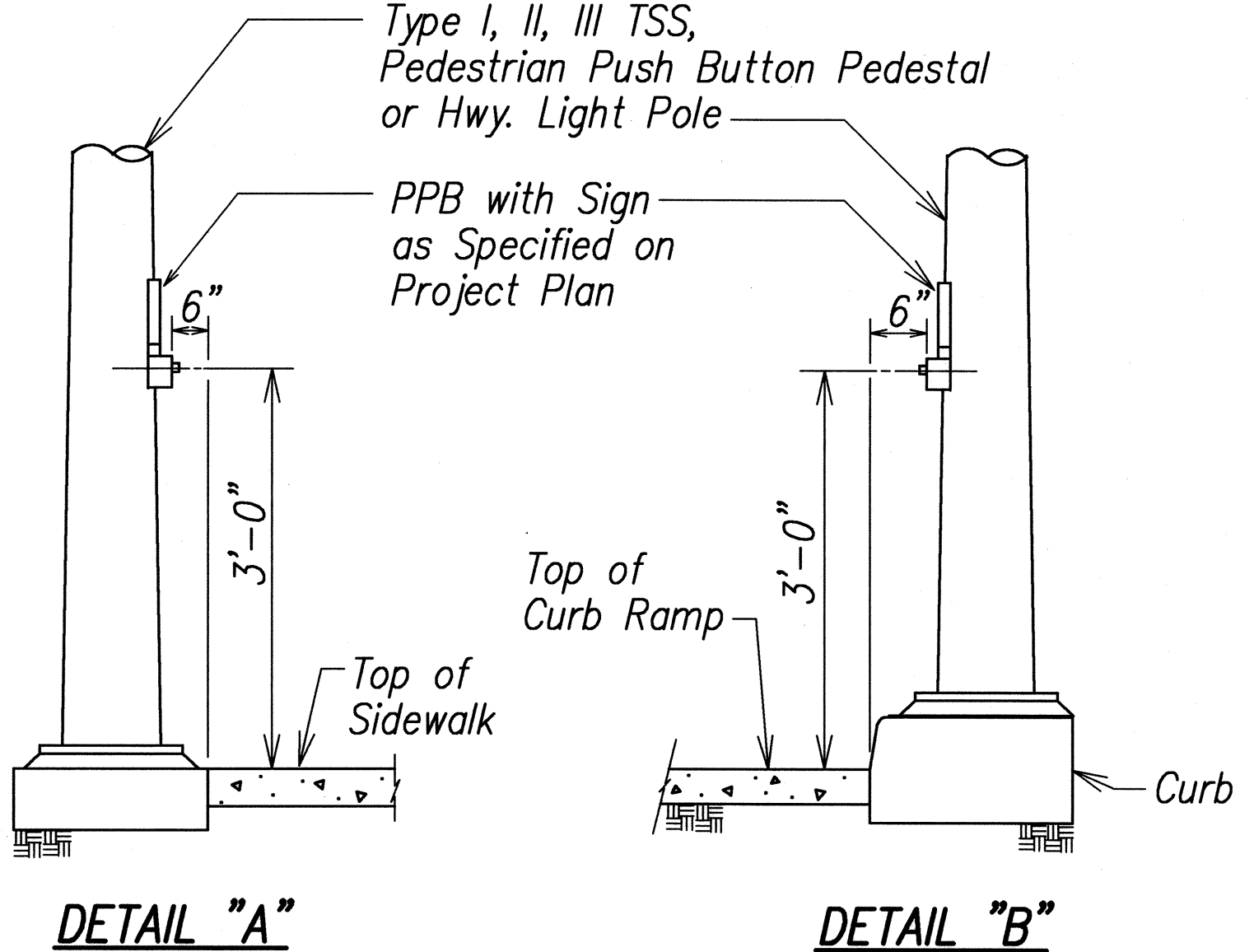
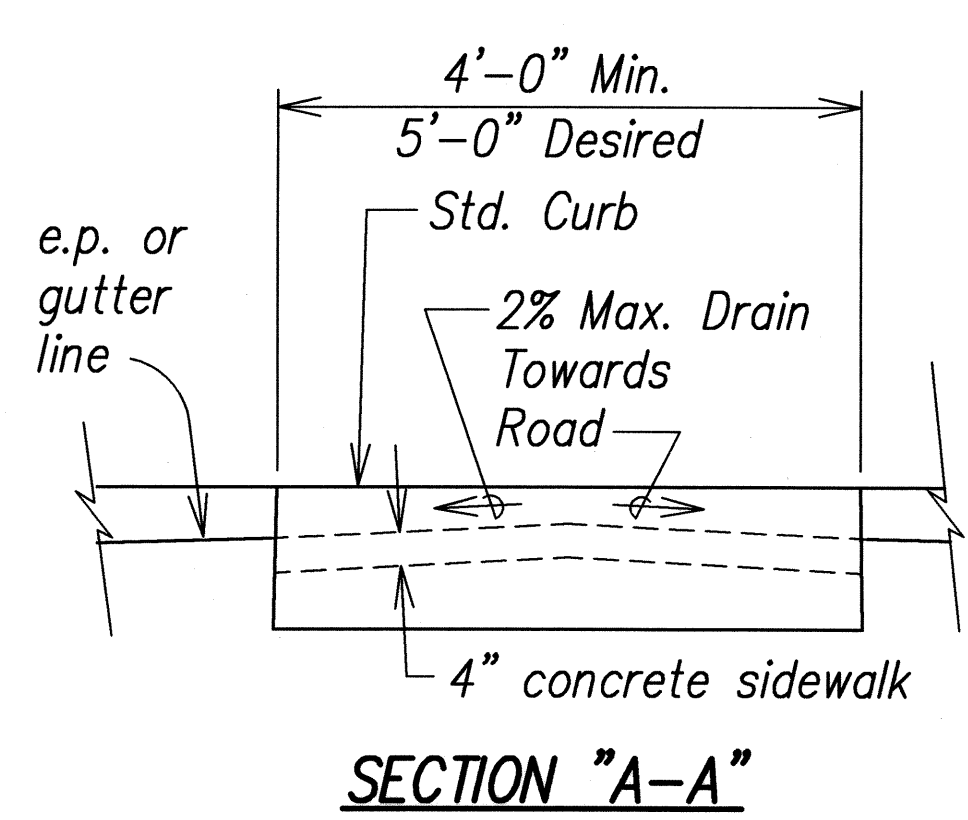
SHEET No. CR5 OF CR23 SHEETS

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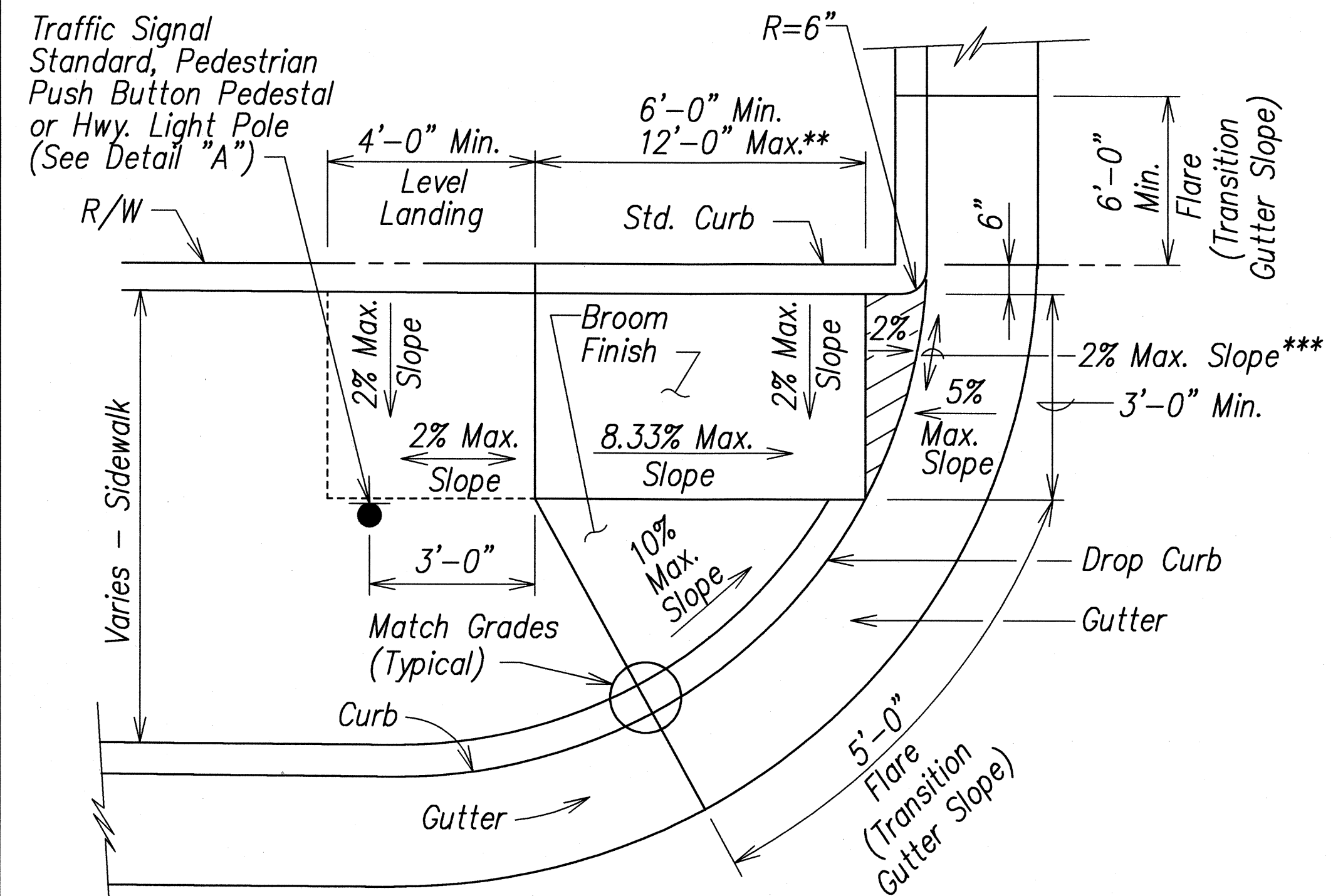
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-050-1(31)	2009	90	452



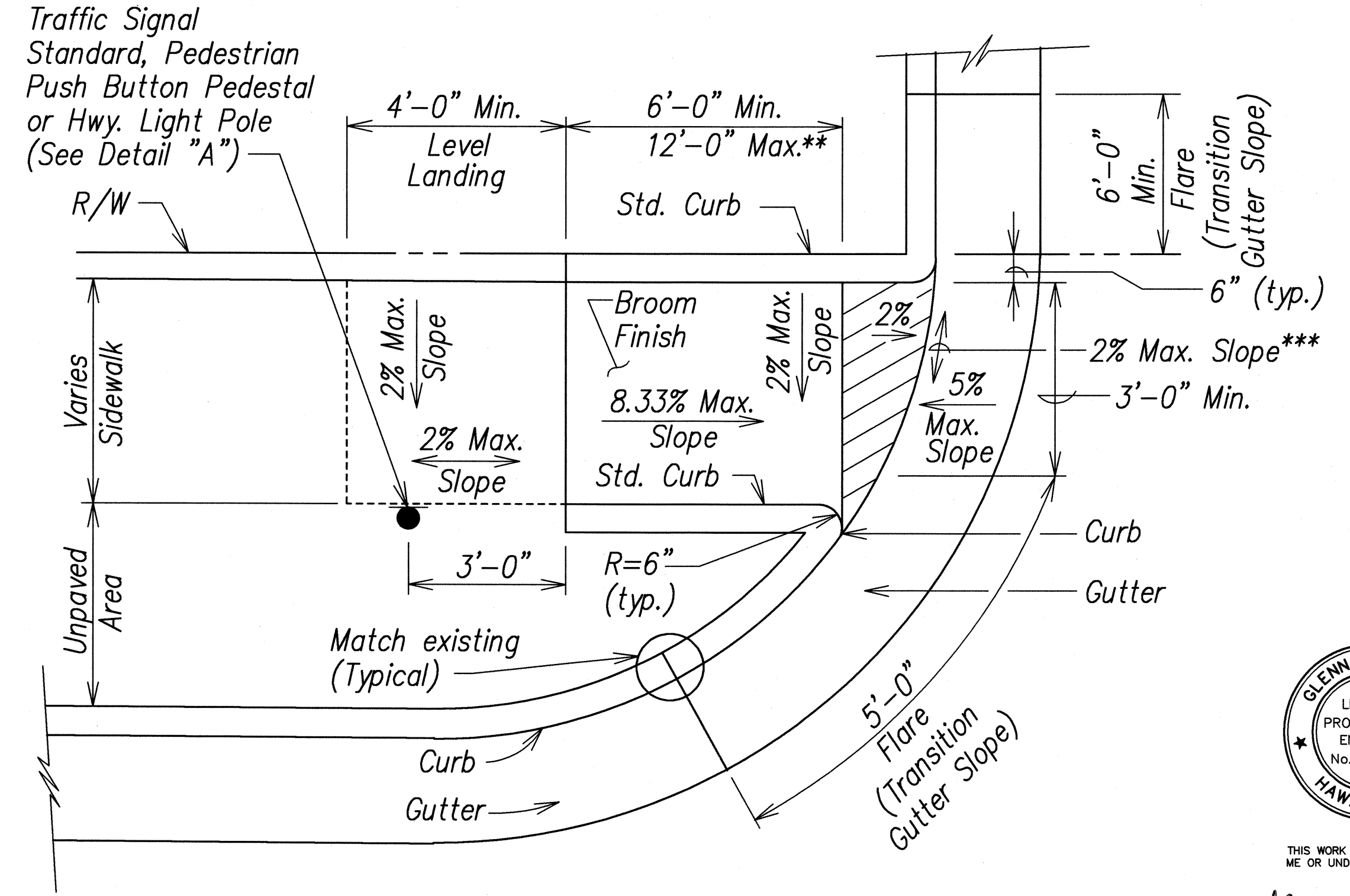
CURB RAMP - TYPE "C"
USE AT MEDIAN CROSSINGS, ISLANDS



CURB RAMP - TYPE "C" MODIFIED



CURB RAMP - TYPE "D"

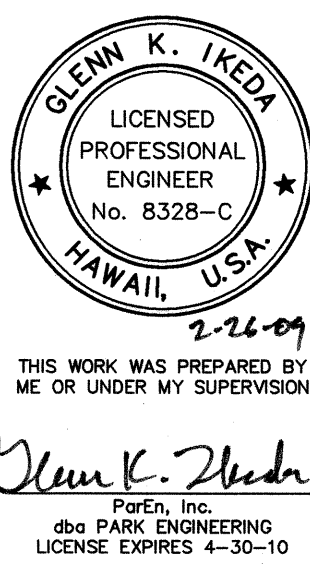


CURB RAMP - TYPE "D" MODIFIED

- * 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 a Technical Infeasibility (TI) Statement

ORIGINAL PLAN	DATE
DRAWN BY	
CHECKED BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

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R 12-06-06 TE-68 sht. 5 of 9



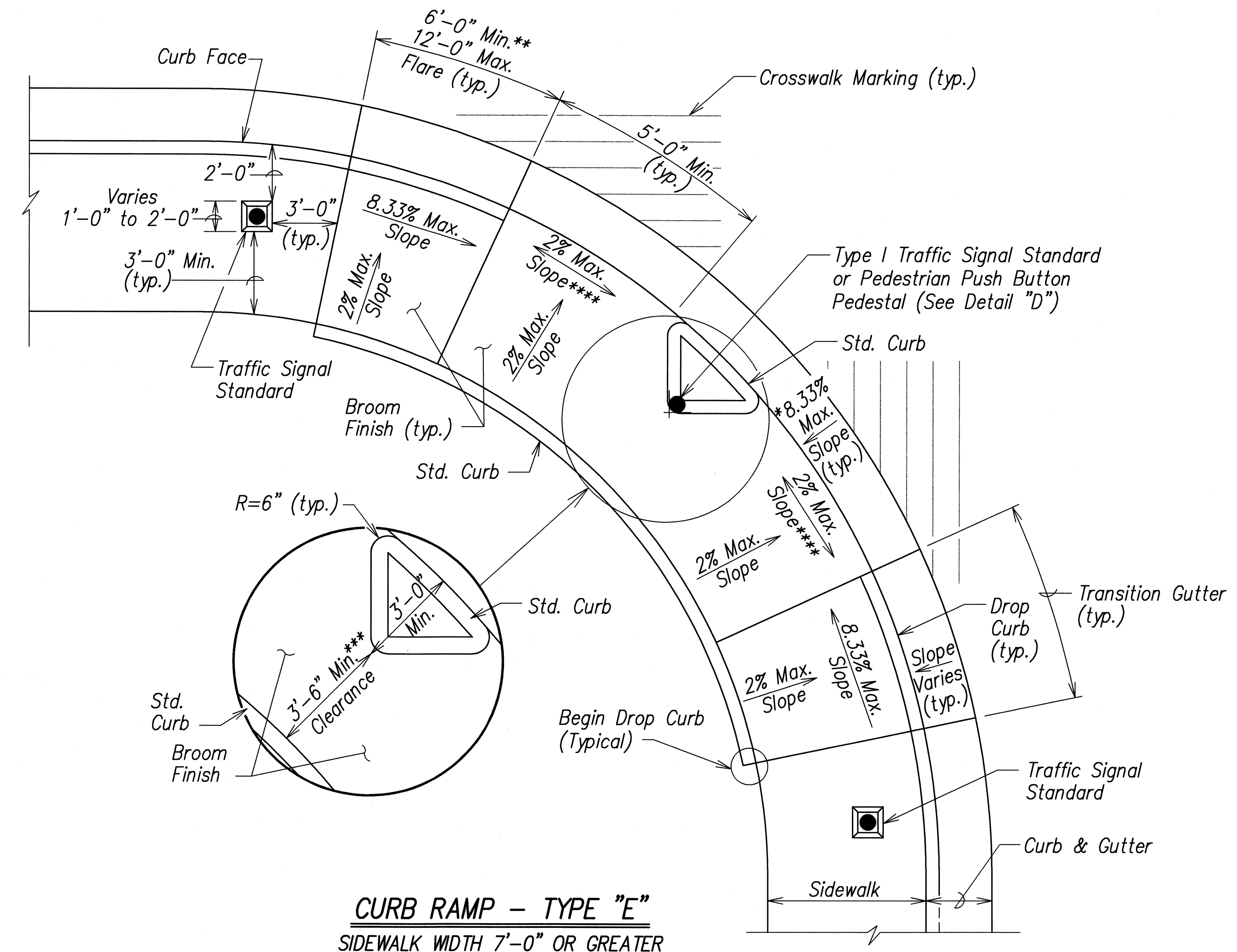
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL CURB RAMP DETAILS

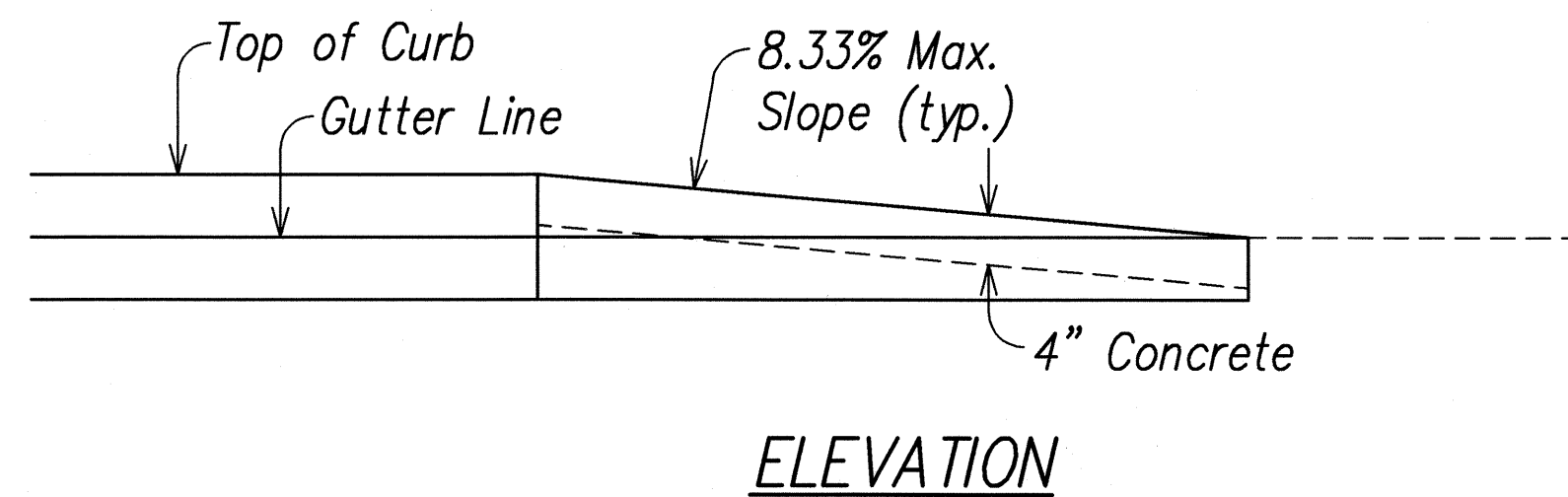
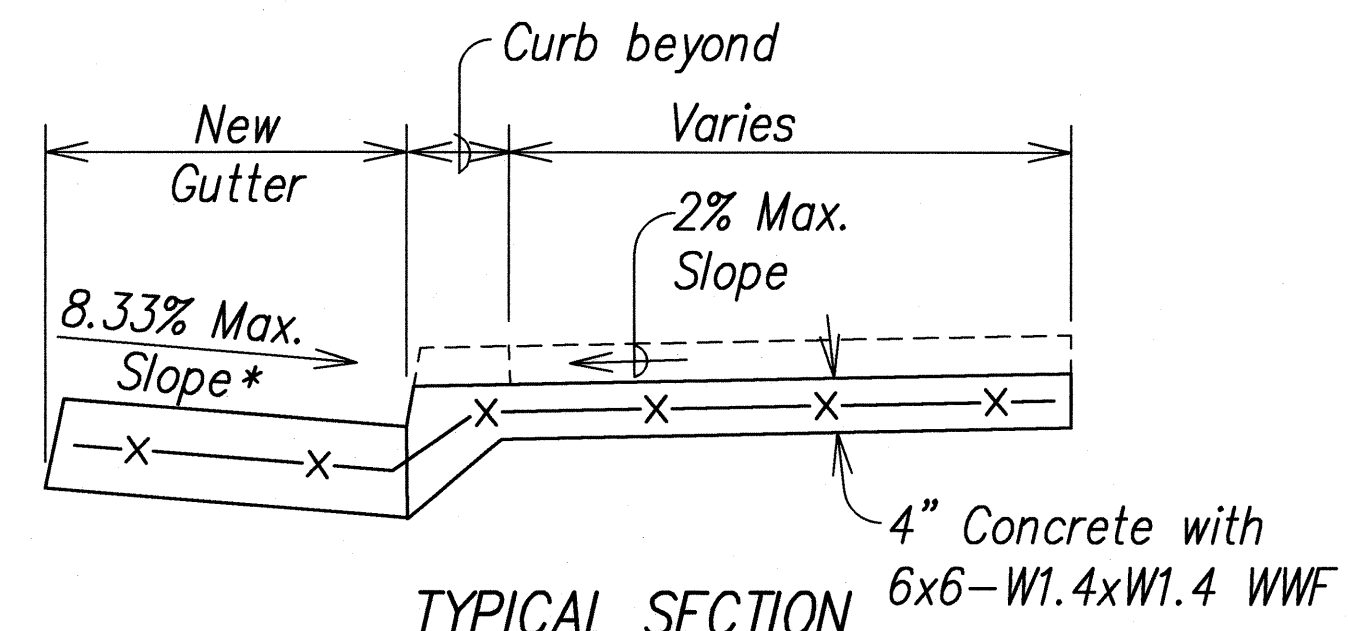
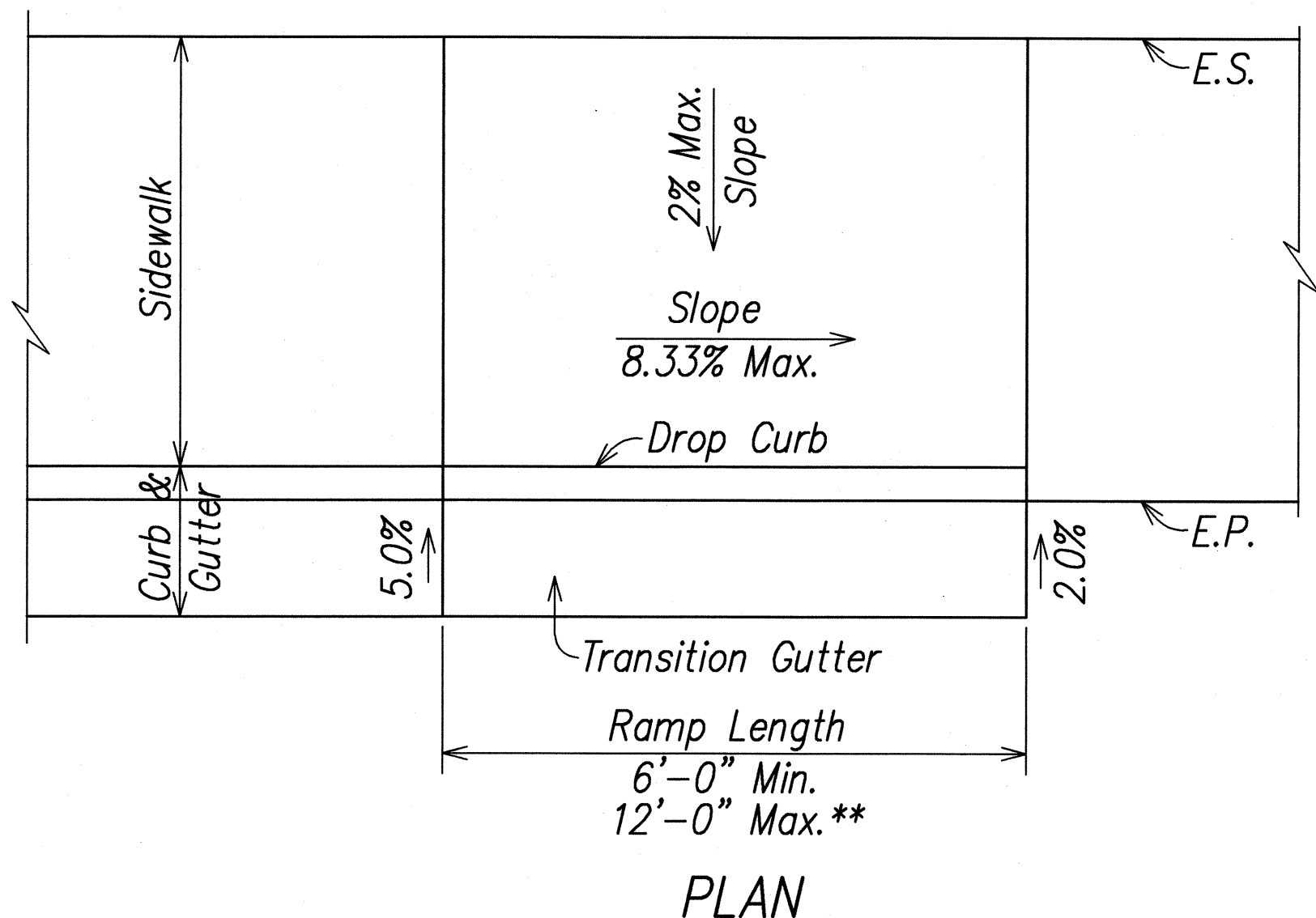
KAUAI/II HIGHWAY WIDENING
Vicinity of Anonui Street to Vicinity of Lihue Mill Bridge
FEDERAL-AID PROJECT NO. NH-050-1(31)
Scale: None Date: FEB. 2009

SHEET No. CR6 OF CR23 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-050-1(31)	2009	91	452



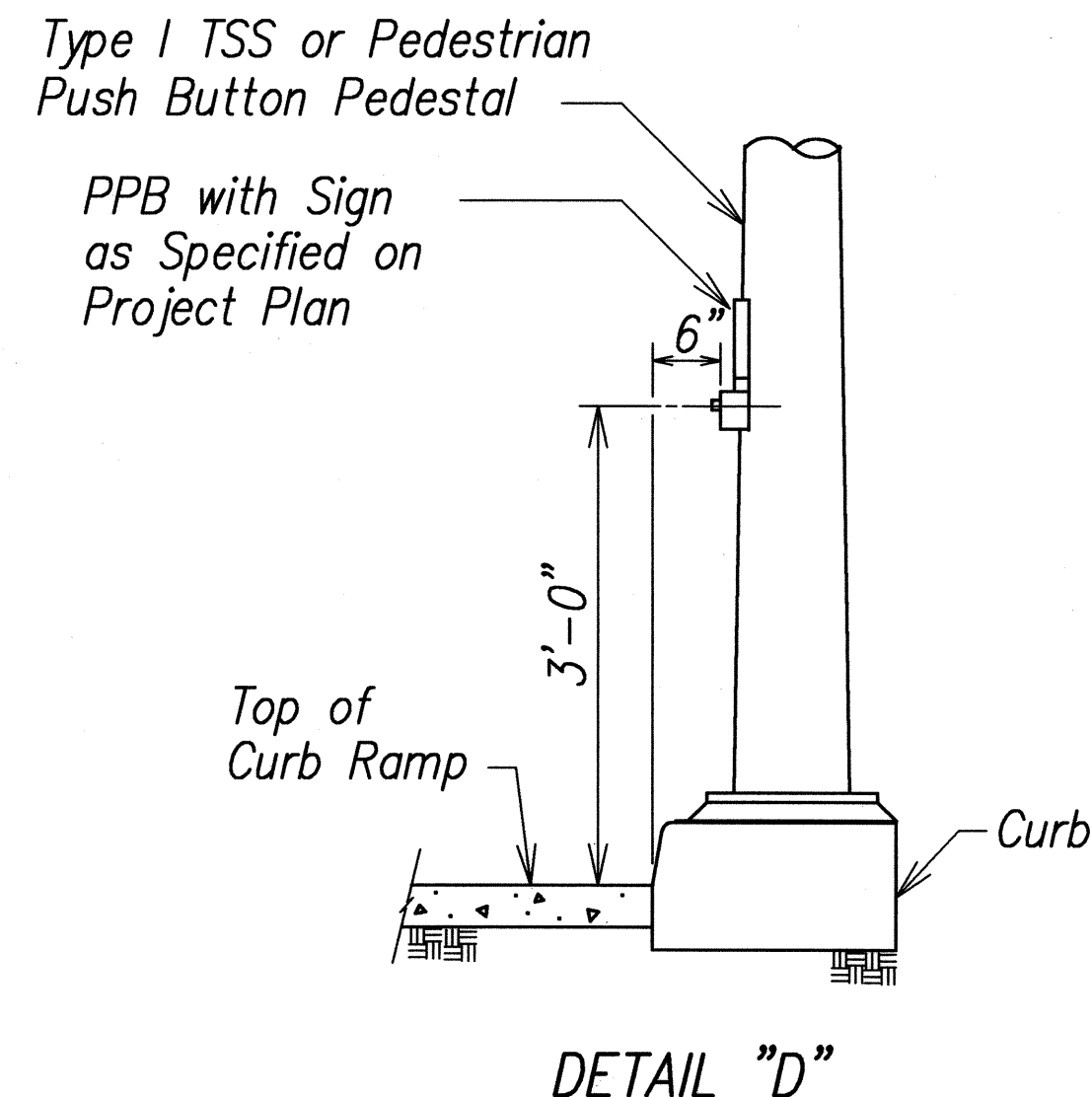
CURB RAMP - TYPE "E"
SIDEWALK WIDTH 7'-0" OR GREATER



CURB RAMP - TYPE "F"
END OF SIDEWALK CONDITION

(TO BE USED ONLY WITH TRAFFIC SIGNAL STANDARD OR PEDESTRIAN PUSH BUTTON PEDESTAL ON TRIANGULAR "ISLAND")

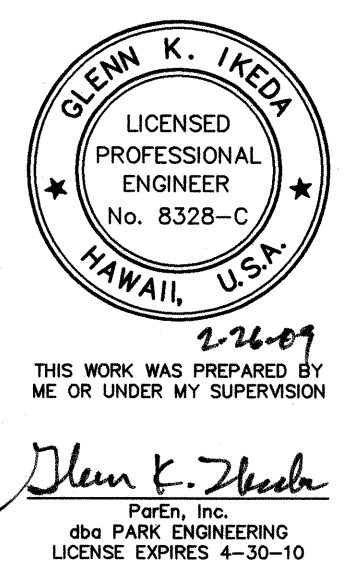
- * See Curb Ramp and Sidewalk Note No. 9
- ** The slope of the ramp shall take precedence over the length of the ramp. If the maximum slope of a ramp cannot be met within a length of 12 feet, then the slope of the ramp shall be set when the length of the ramp is set at the maximum of 12 feet.
- *** The Clearance shall be increased to 6'-0" or wider at areas with high pedestrian traffic or as directed by the Engineer or as shown on the plans.
- **** If Roadway Slope >2% Conform to Roadway Slope and File Technical Infeasibility (TI) Statement



DETAIL "D"

ORIGINAL PLAN	DATE
DRAWN BY	
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QUANTITIES BY	
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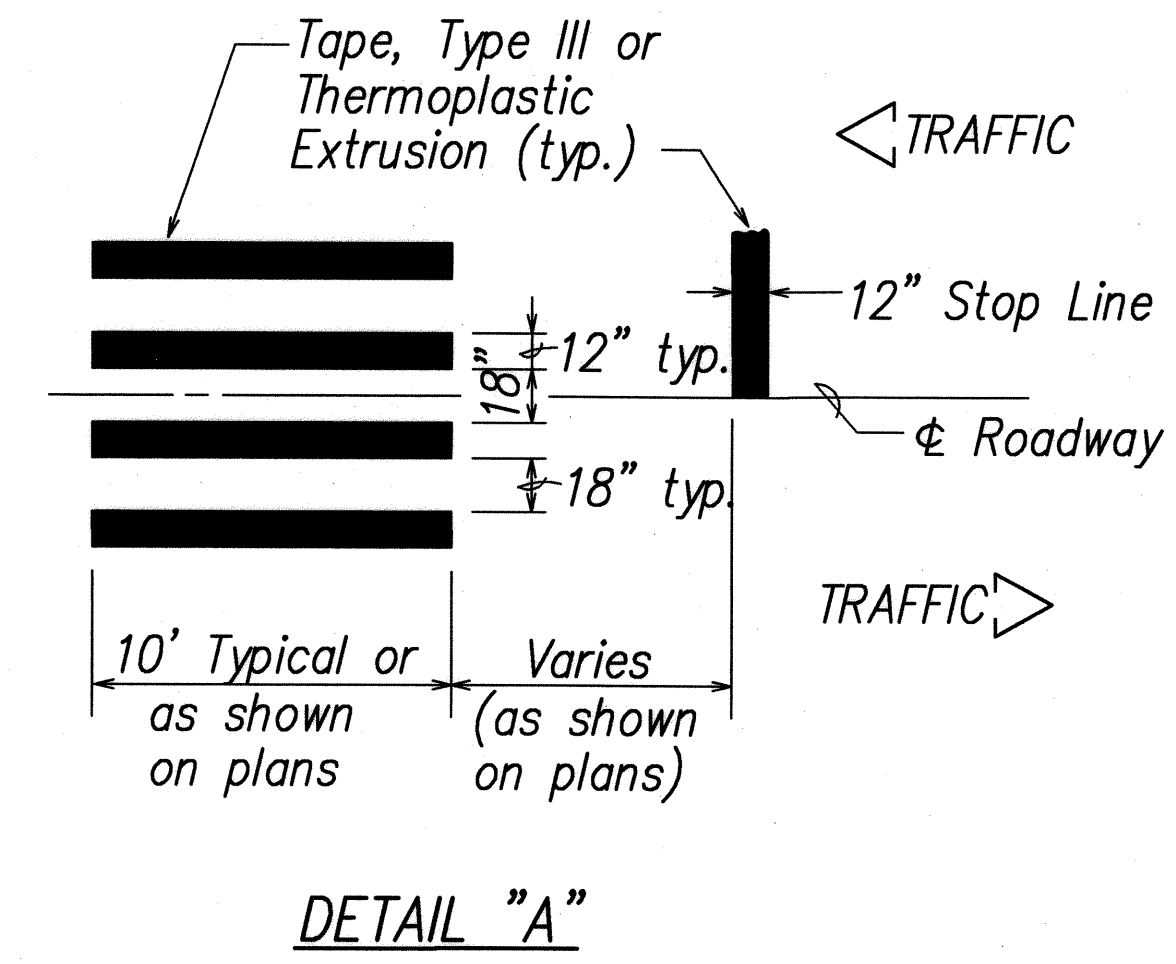
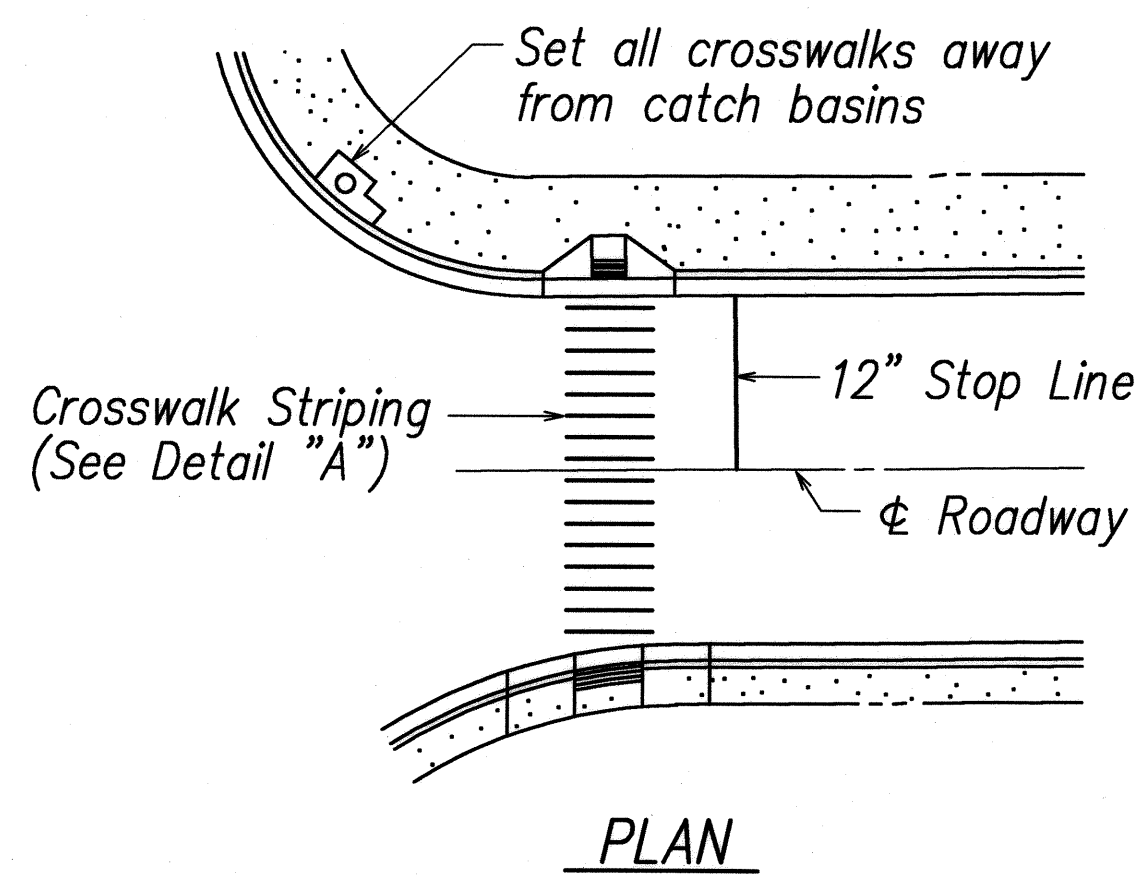


STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL CURB RAMP DETAILS

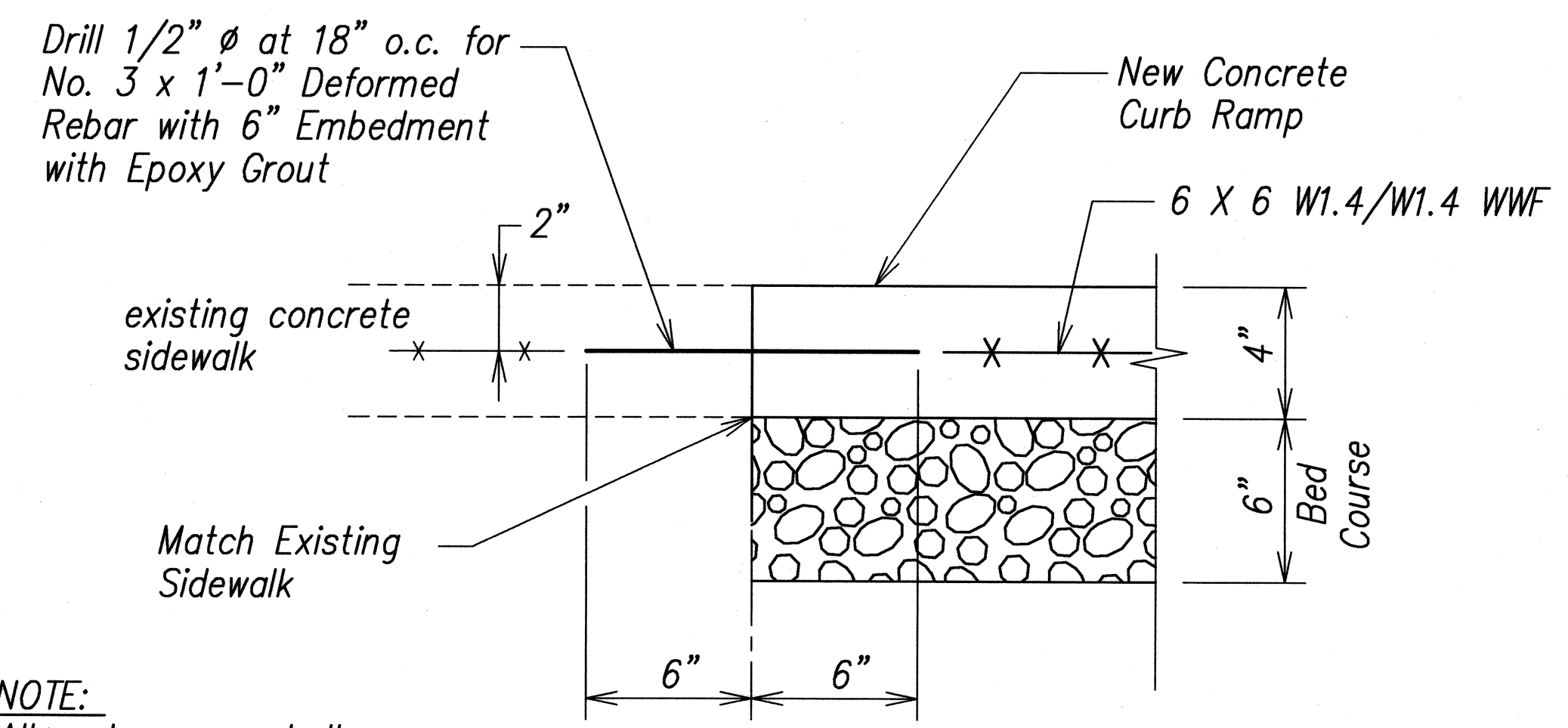
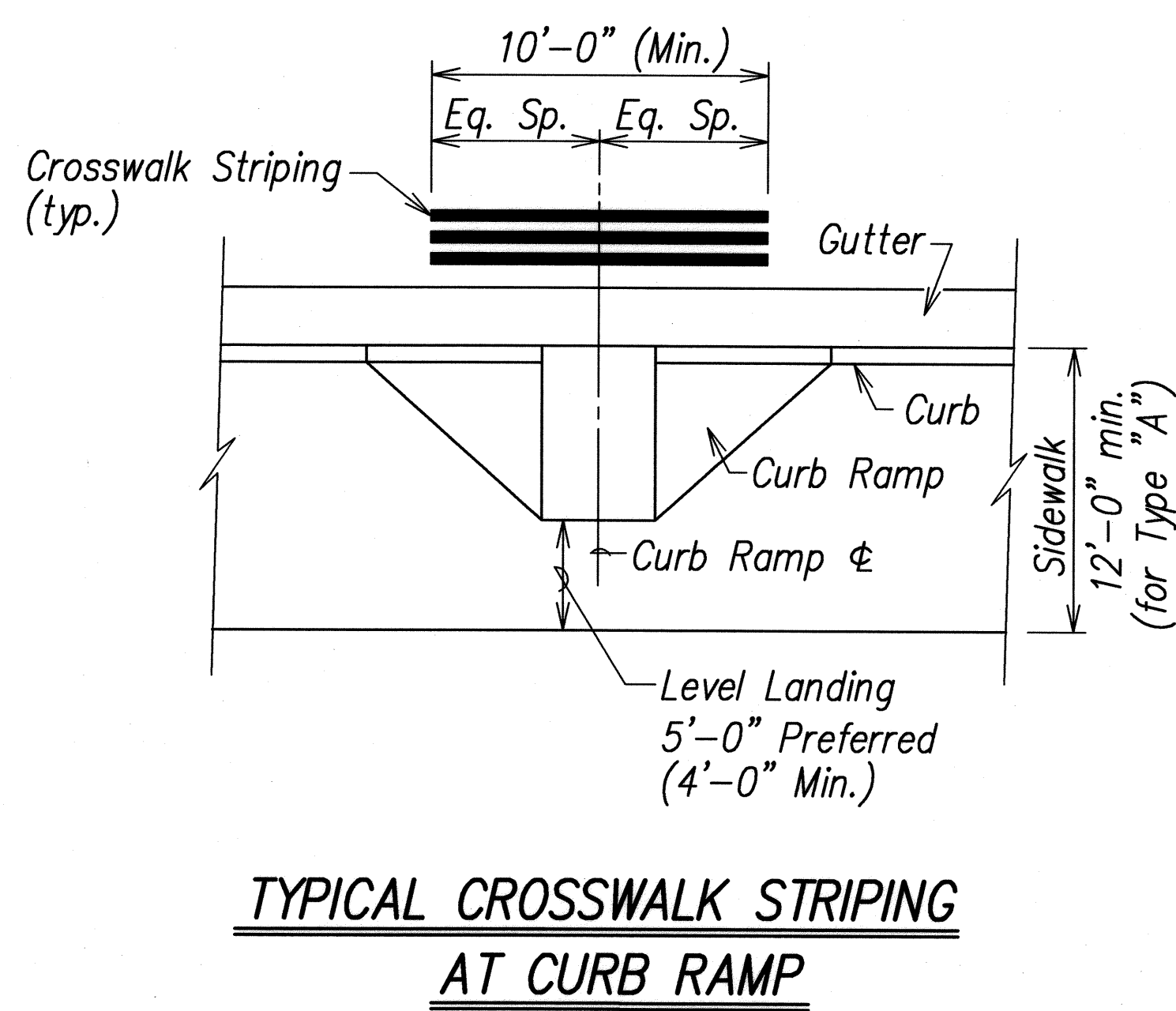
KAUMUALII HIGHWAY WIDENING
Vicinity of Anonui Street to Vicinity of Lihue Mill Bridge
FEDERAL-AID PROJECT NO. NH-050-1(31)
Scale: None Date: FEB. 2009
SHEET No. CR7 OF CR23 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-050-1(31)	2009	92	452

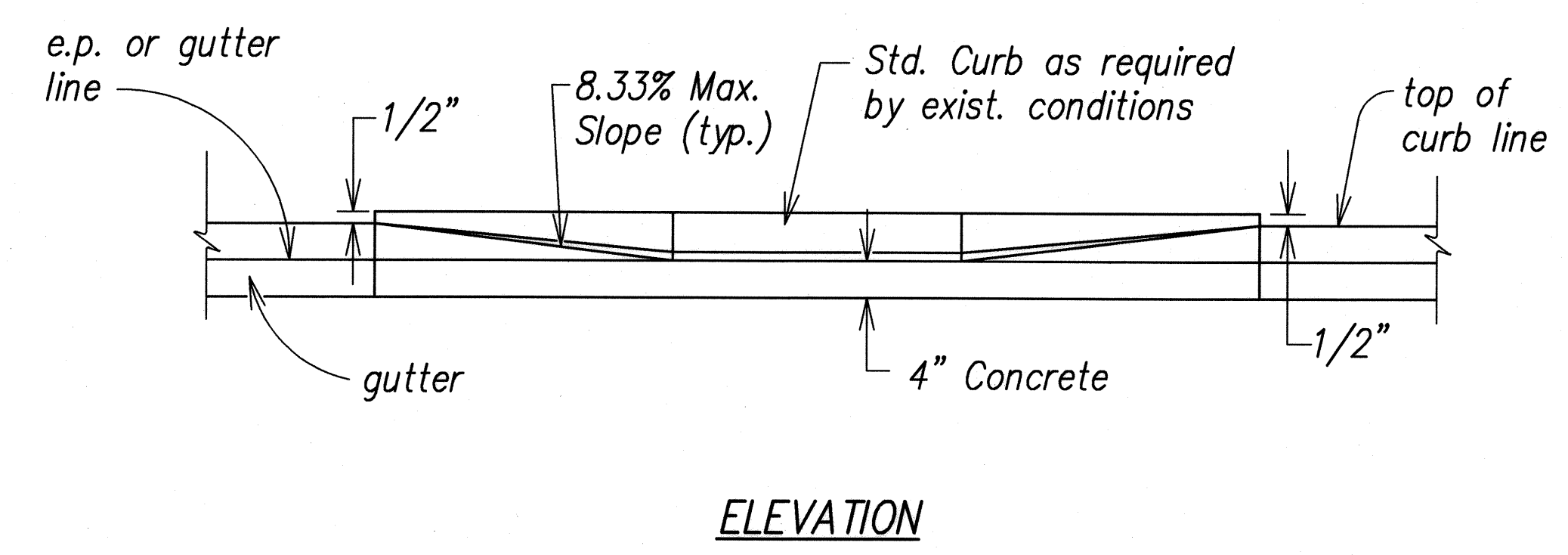
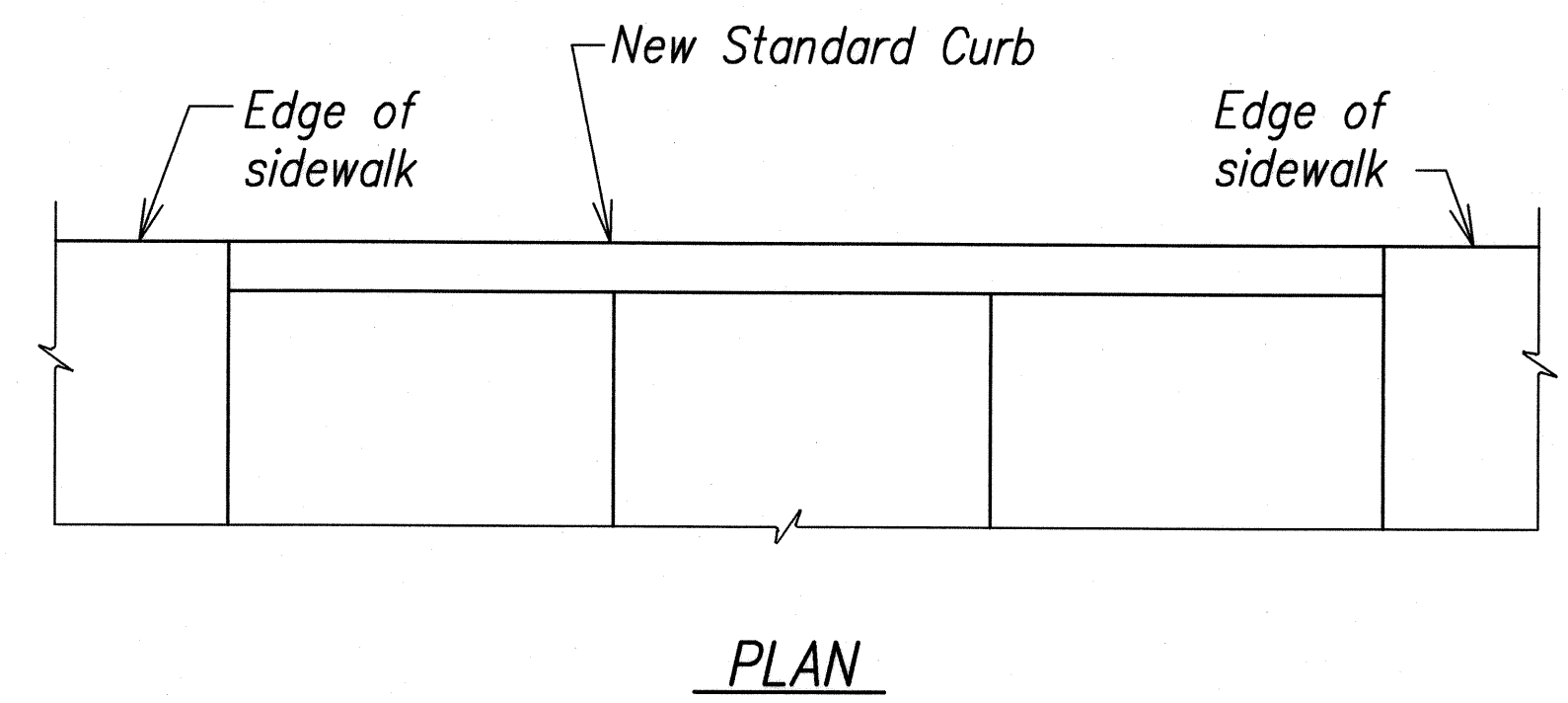
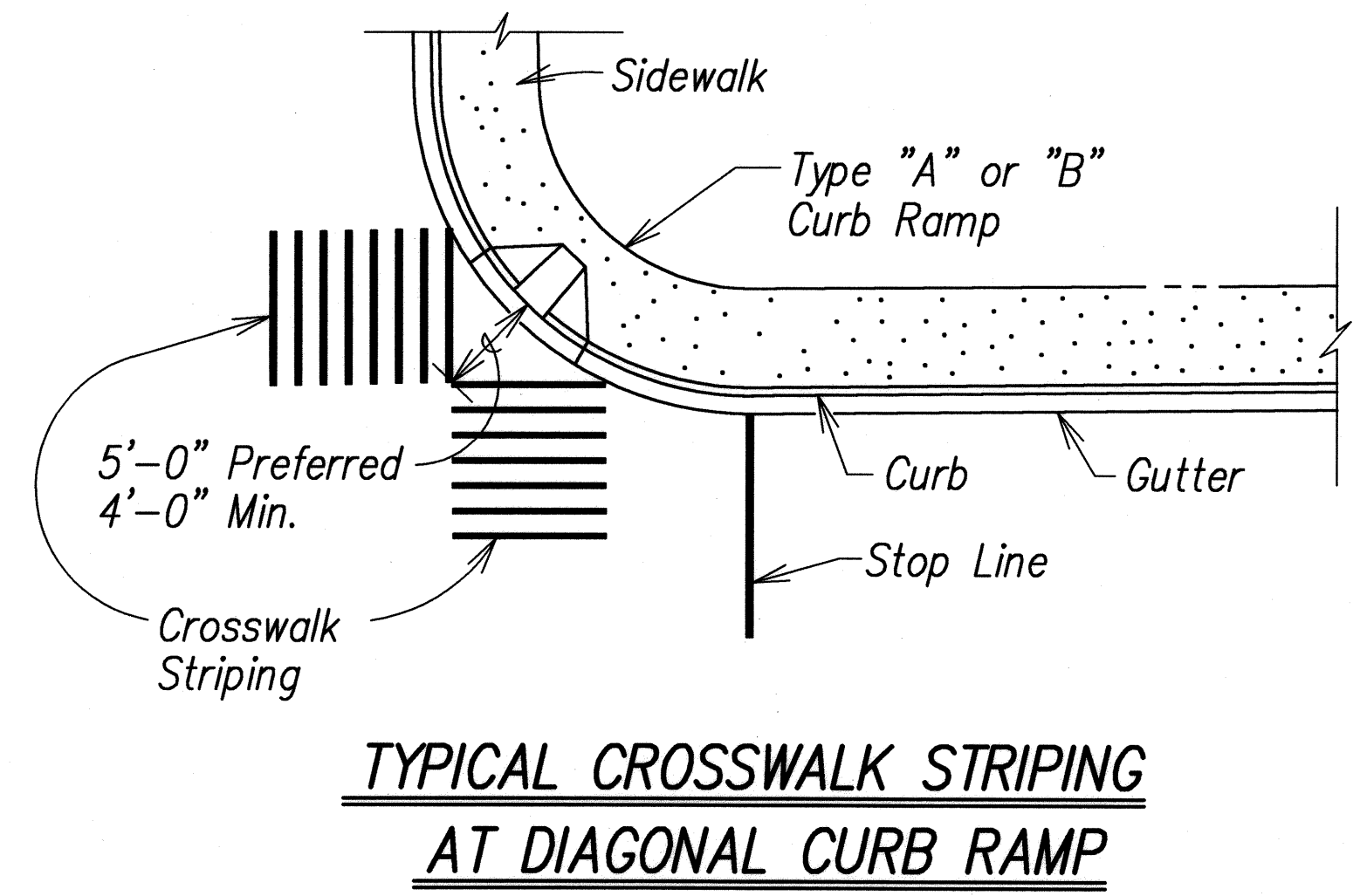


CROSSWALK STRIPING DETAIL

NOTE:
Longitudinal lines shall be parallel to traffic flow.



NOTE:
All curb ramps shall be reinforced.

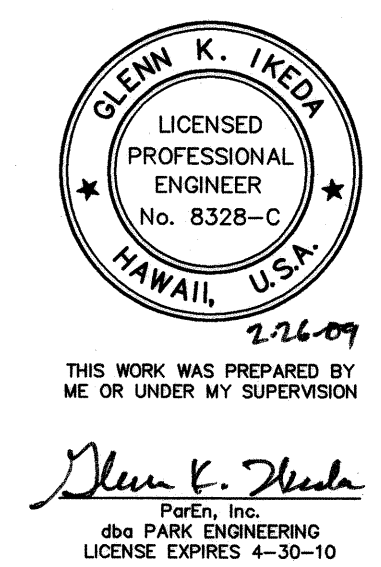


DETAIL - BACK CURB

NOTE:
This detail can be used in situations where the edge of sidewalk cannot be flush with the face of (back) curb due to right of way restrictions.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
	CHECKED BY	
	QUANTITIES BY	
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102 STATE OF HAWAII - TRANSPORTATION DIVISION PLANS REVIEW - CRB-1176.dwg 11/26/08



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

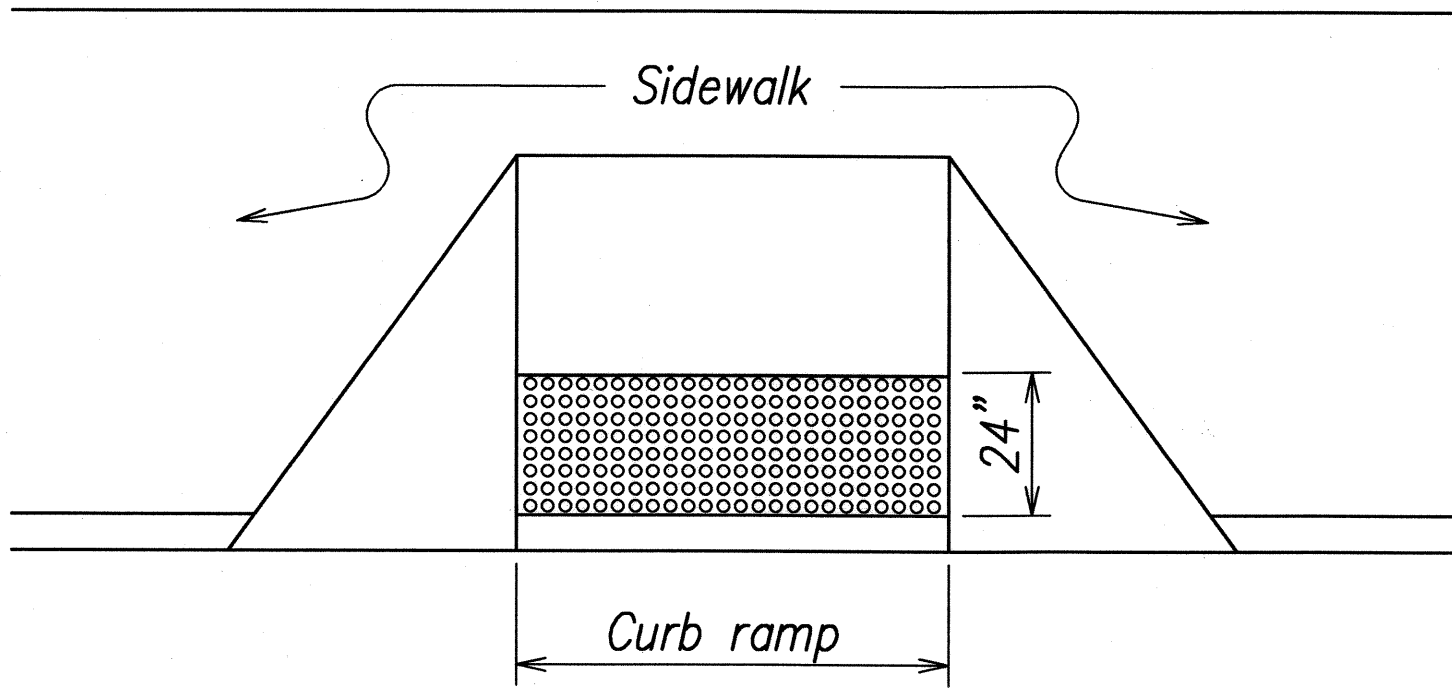
MISCELLANEOUS DETAILS

KAUMUALII HIGHWAY WIDENING
Vicinity of Anonui Street to Vicinity of Lihue Mill Bridge
FEDERAL-AID PROJECT NO. NH-050-1(31)

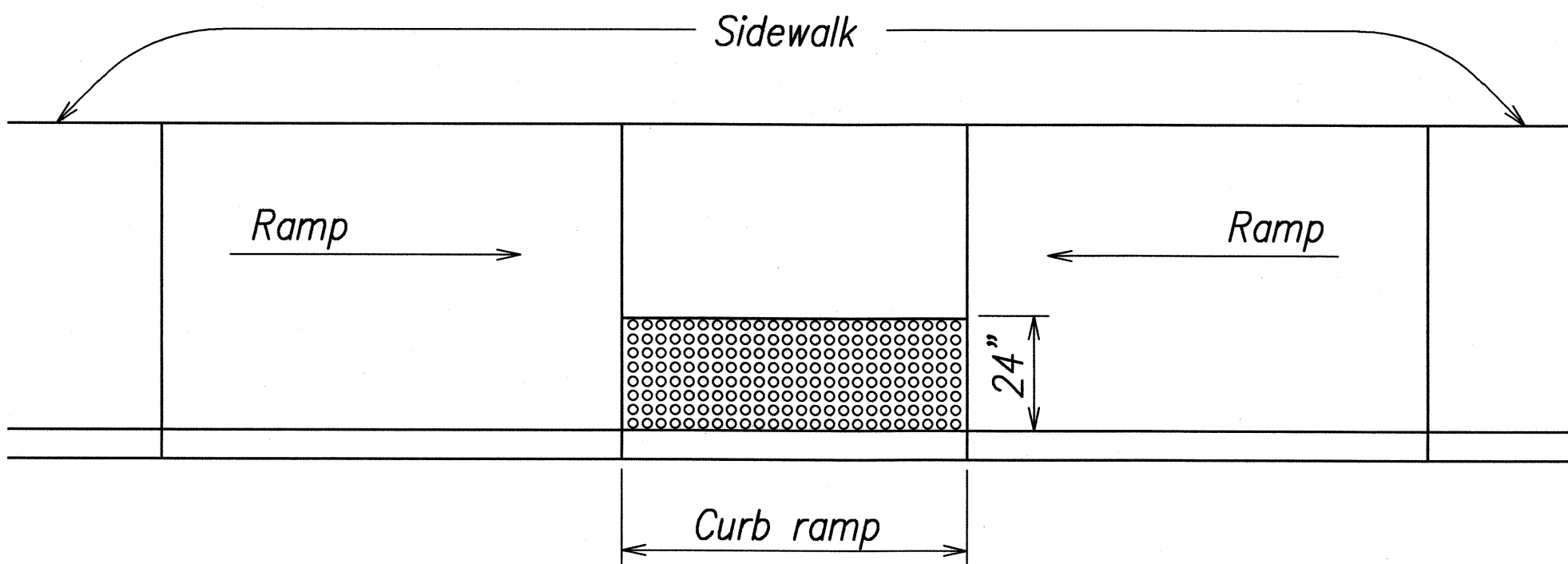
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SHEET No. CR8 OF CR23 SHEETS

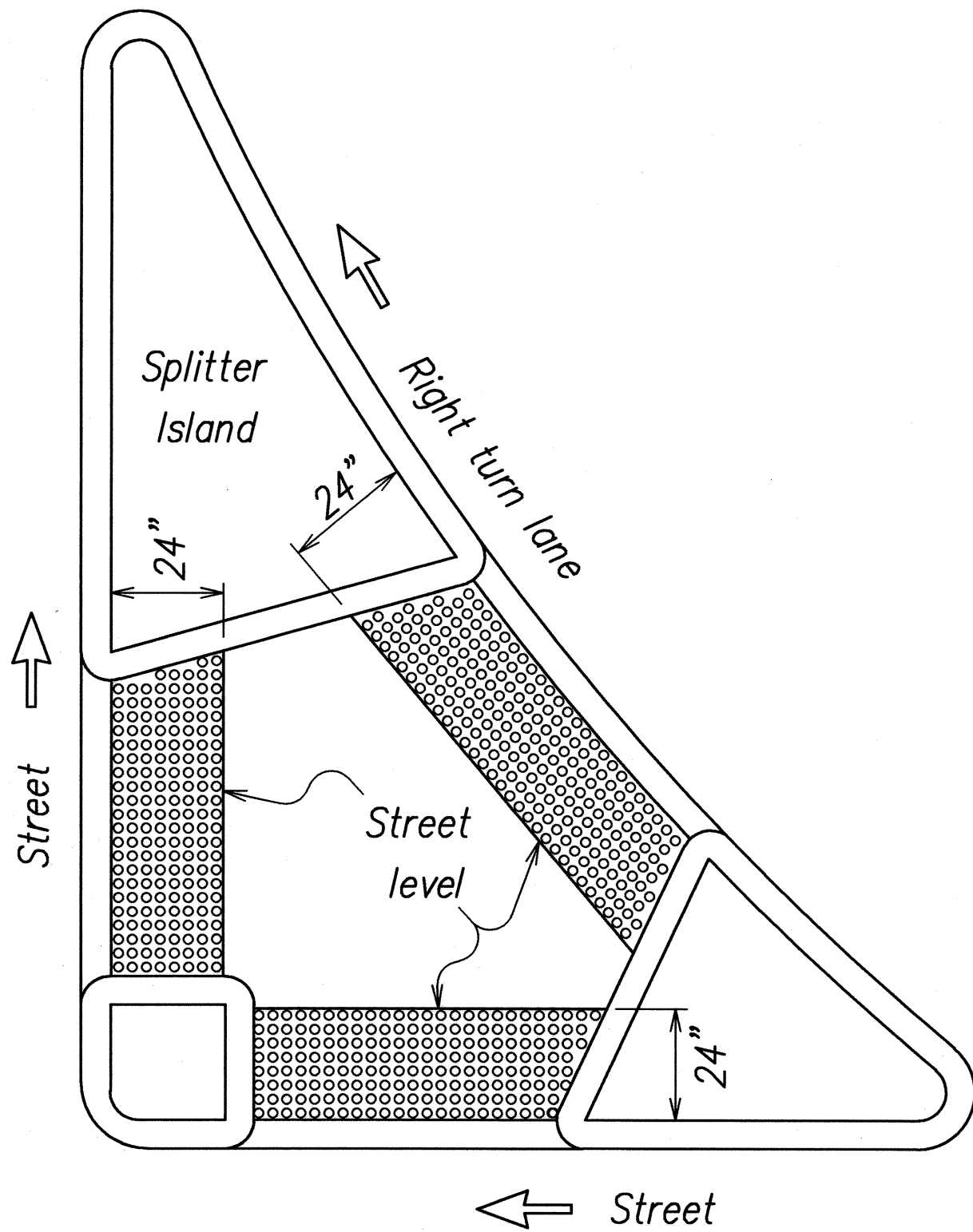
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HAWAII	HAW.	NH-050-1(31)	2009	93	452



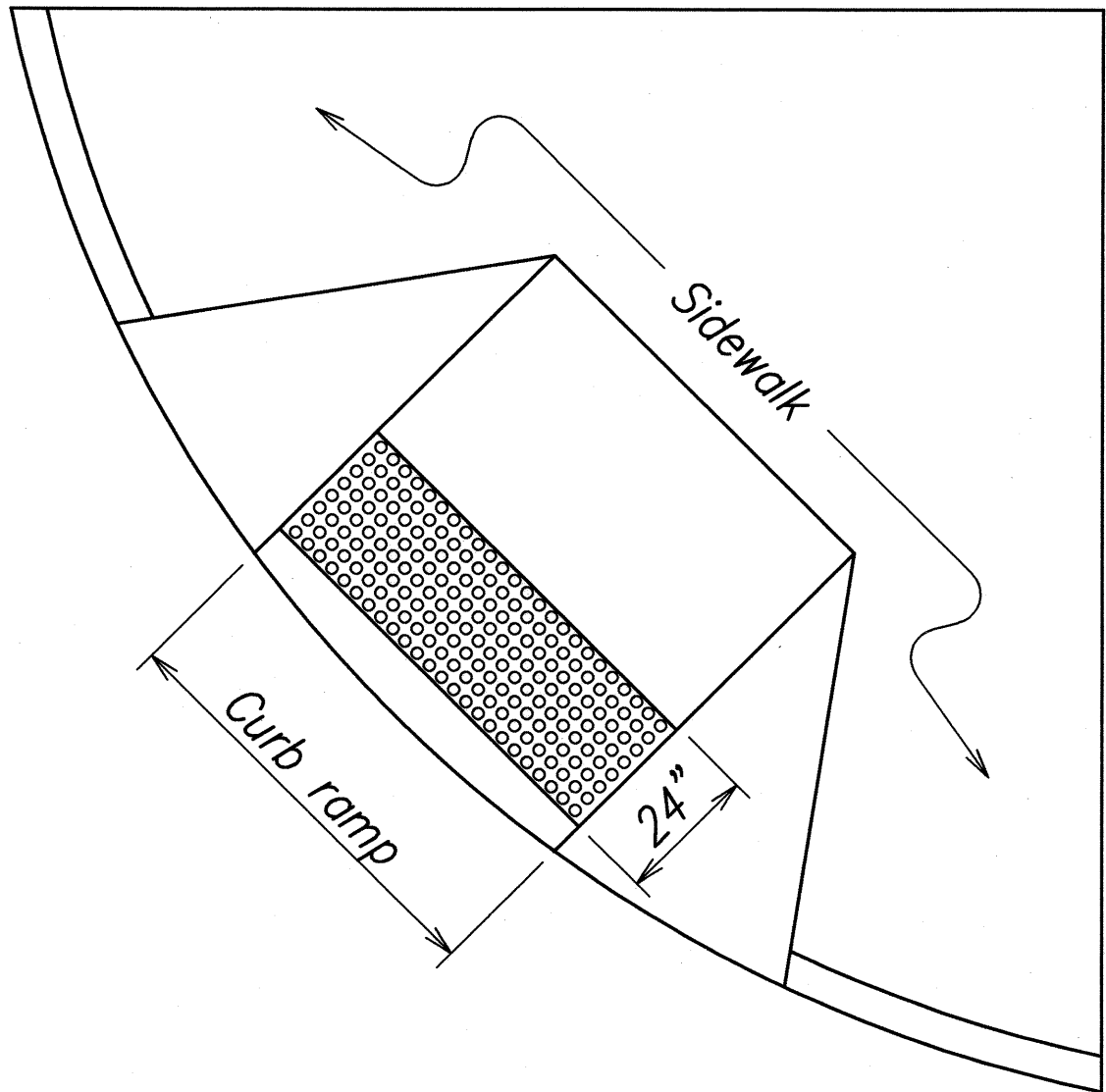
DETECTABLE WARNING AT CURB RAMP



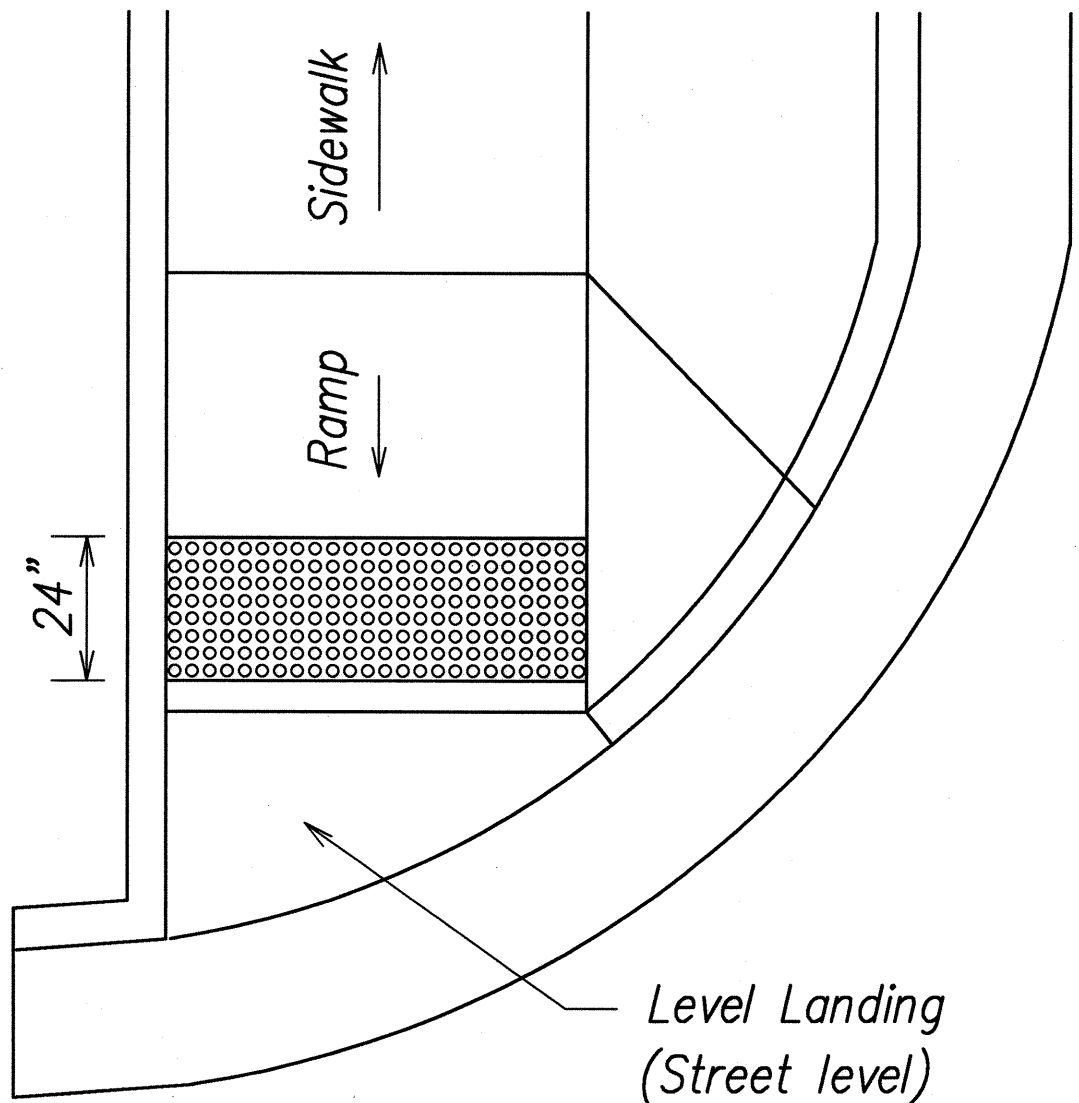
TRANSITION RAMP WITH DETECTABLE WARNING



REFUGE ISLAND WITH DETECTABLE WARNING



SHARED CURB RAMP WITH DETECTABLE WARNING



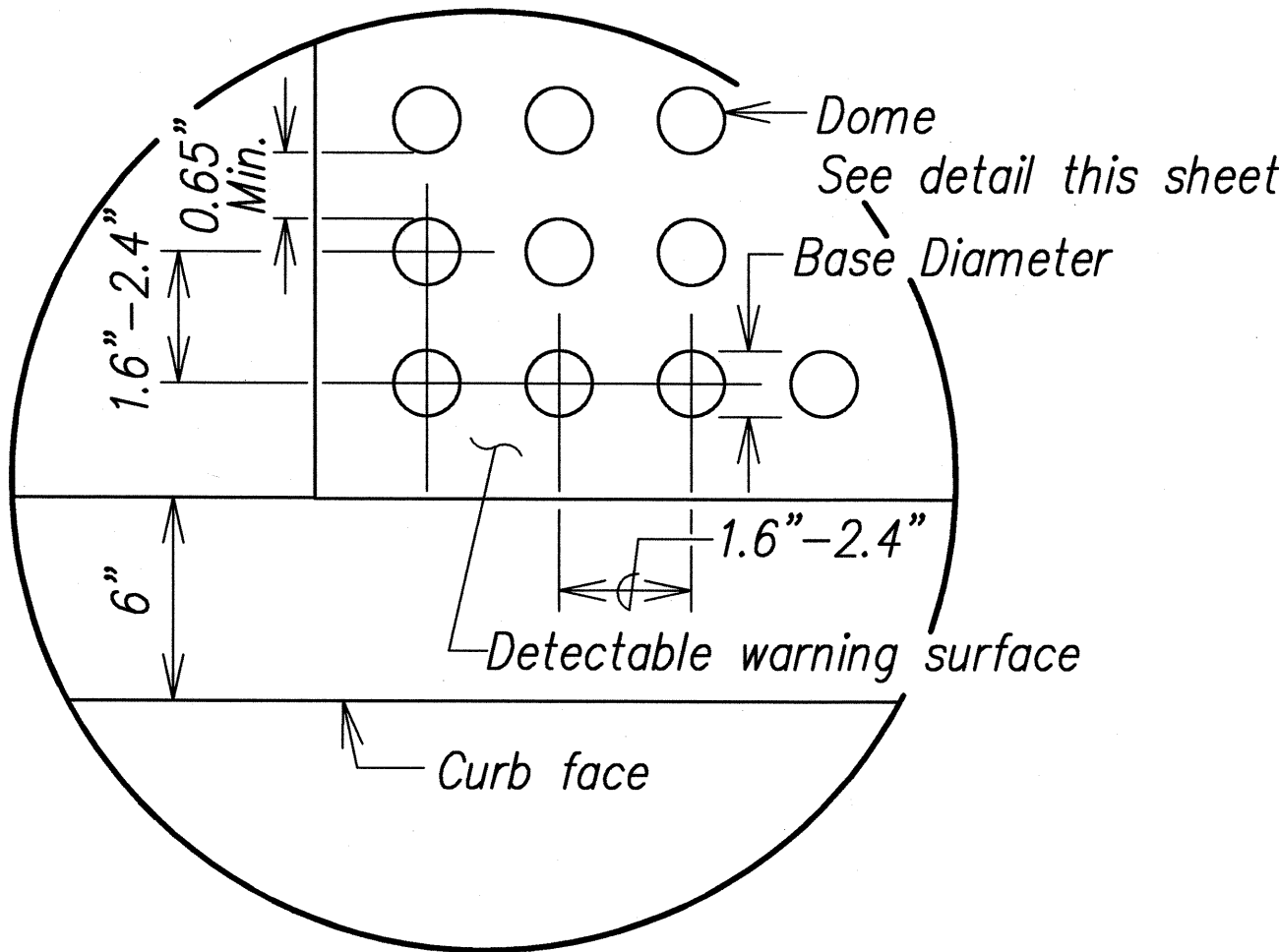
END OF SIDEWALK CURB RAMP WITH DETECTABLE WARNING

TYPICAL INSTALLATION OF DETECTABLE WARNINGS

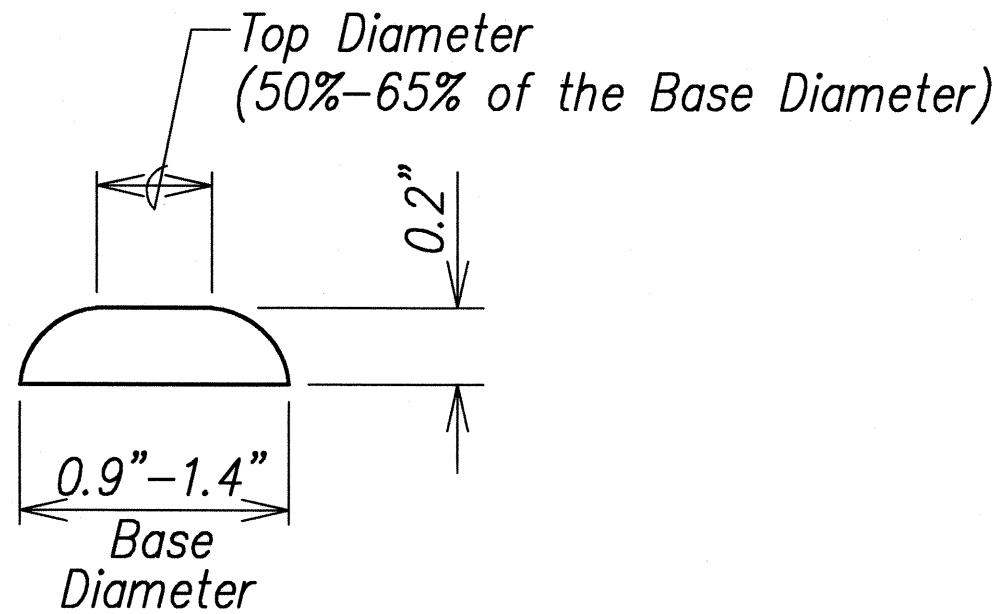
Not to Scale

NOTES:

1. Detectable warnings shall be 24 inches in the direction of travel and extend the full width of the curb ramp or flush surface (does not include flares).
2. Truncated domes shall have a diameter of 0.9 to 1.4 inch at the bottom, a diameter of 50%–65% of the base diameter at the top, a height of 0.2 inch and a center-to-center spacing of 1.6 to 2.4 inches measured along one side of a square arrangement.
3. Domes shall be aligned on a square grid in the predominant direction of travel to permit wheels to roll between the domes.
4. There shall be a minimum of 70 percent contrast in light reflectance between the detectable warning and an adjoining surface, or the detectable warning shall be "safety yellow".
5. The material used to provide visual contrast shall be an integral part of the detectable warning surface.
6. The detectable warning shall be located so that the edge nearest the curb line or other potential hazard is 6 to 8 inches from the curb line.



ENLARGEMENT



DOME SECTION

DETECTABLE WARNING DETAIL

Not to Scale



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
 2-26-09
 Glenn K. Ikeda
 PAREK, INC.
 dba PARK ENGINEERING
 LICENSE EXPIRES 4-30-10

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DETECTABLE WARNING DETAILS

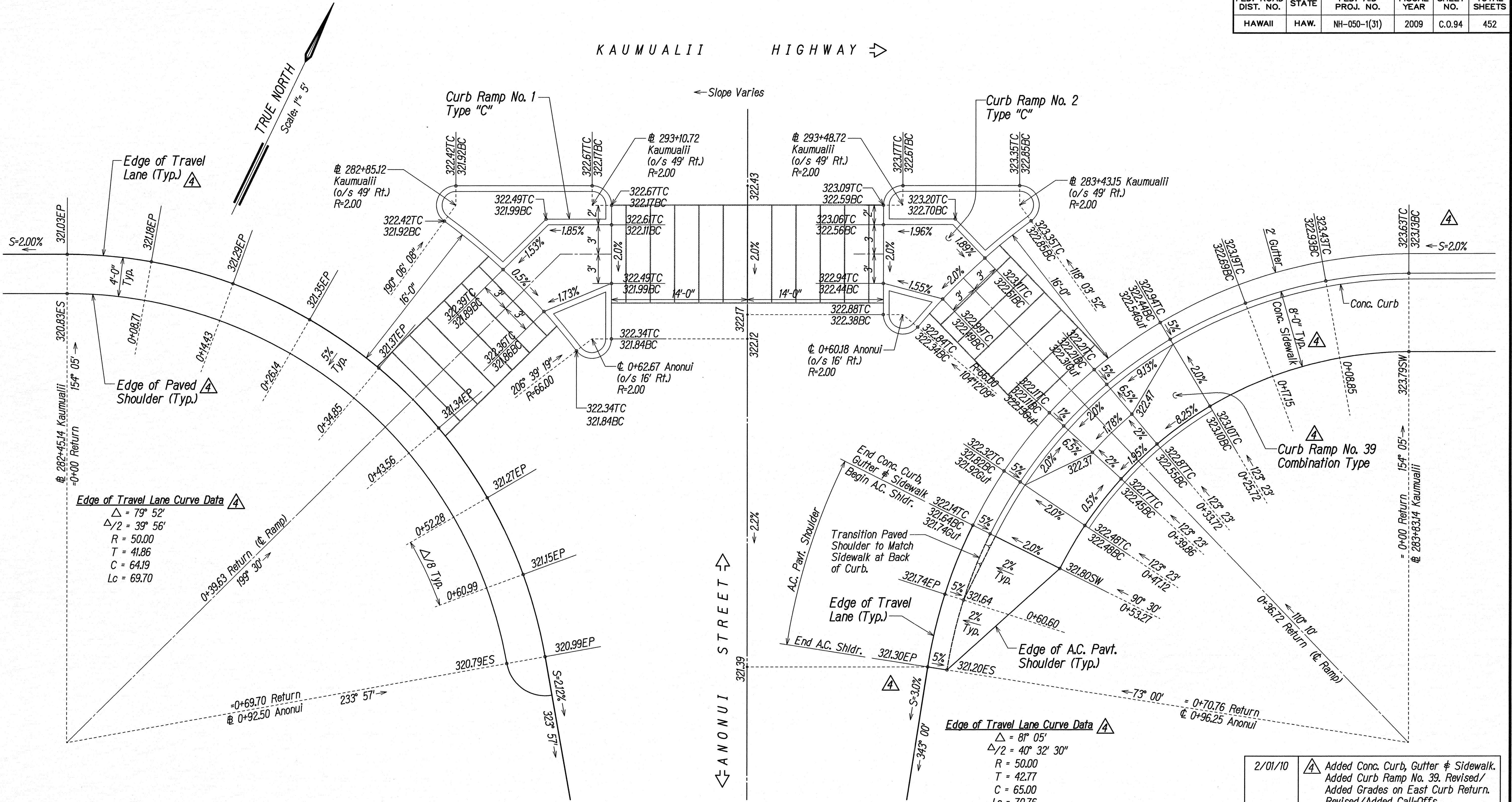
KAUMUALII HIGHWAY WIDENING
Vicinity of Anonui Street to Vicinity of Lihue Mill Bridge
FEDERAL-AID PROJECT NO. NH-050-1(31)
Scale: None Date: FEB. 2009

SHEET No. CR9 OF CR23 SHEETS

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

LIB2: STATE DOT\KAUMUALII HIGHWAY WIDENING\PROJECTS\NH-050-1(31)\CR9.dgn 11/25/08
 R 08-18-03 TE-XX sht. 9 of 9

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-050-1(31)	2009	C.O.94	452



Edge of Travel Lane Curve Data Δ

$\Delta = 79^\circ 52'$
 $\Delta/2 = 39^\circ 56'$
 $R = 50.00$
 $T = 41.86$
 $C = 64.19$
 $L_c = 69.70$

Edge of Travel Lane Curve Data Δ

$\Delta = 81^\circ 05'$
 $\Delta/2 = 40^\circ 32' 30''$
 $R = 50.00$
 $T = 42.77$
 $C = 65.00$
 $L_c = 70.76$

Curb Curve Data Δ

$\Delta = 63^\circ 35'$
 $\Delta/2 = 31^\circ 47' 30''$
 $R = 48.00$
 $T = 29.75$
 $C = 50.58$
 $L_c = 53.27$

Legend:

- TC Top Curb Grade
- BC Bottom Curb Grade
- Gut Gutter Grade at E.P.
- SW Back of Sidewalk Grade
- EP Edge of Pavement Grade
- ES Edge of Shoulder Grade

TRAFFIC ISLAND & CURB RAMP PLAN - ANONU STREET
 SCALE: 1" = 5'



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 ME OR UNDER MY SUPERVISION
 Glen K. Ikeda
 Park Engineering, Inc.
 LICENSE EXPIRES 4-30-10

2/01/10	Δ Added Conc. Curb, Gutter & Sidewalk. Added Curb Ramp No. 39. Revised/Added Grades on East Curb Return. Revised/Added Call-Offs.
DATE	REVISION

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

TRAFFIC ISLAND & CURB RAMP PLAN
ANONU STREET

KAUMUALII HIGHWAY WIDENING
 Vicinity of Anonui Street to Vicinity of Lihue Mill Bridge
 FEDERAL-AID PROJECT NO. NH-050-1(31)

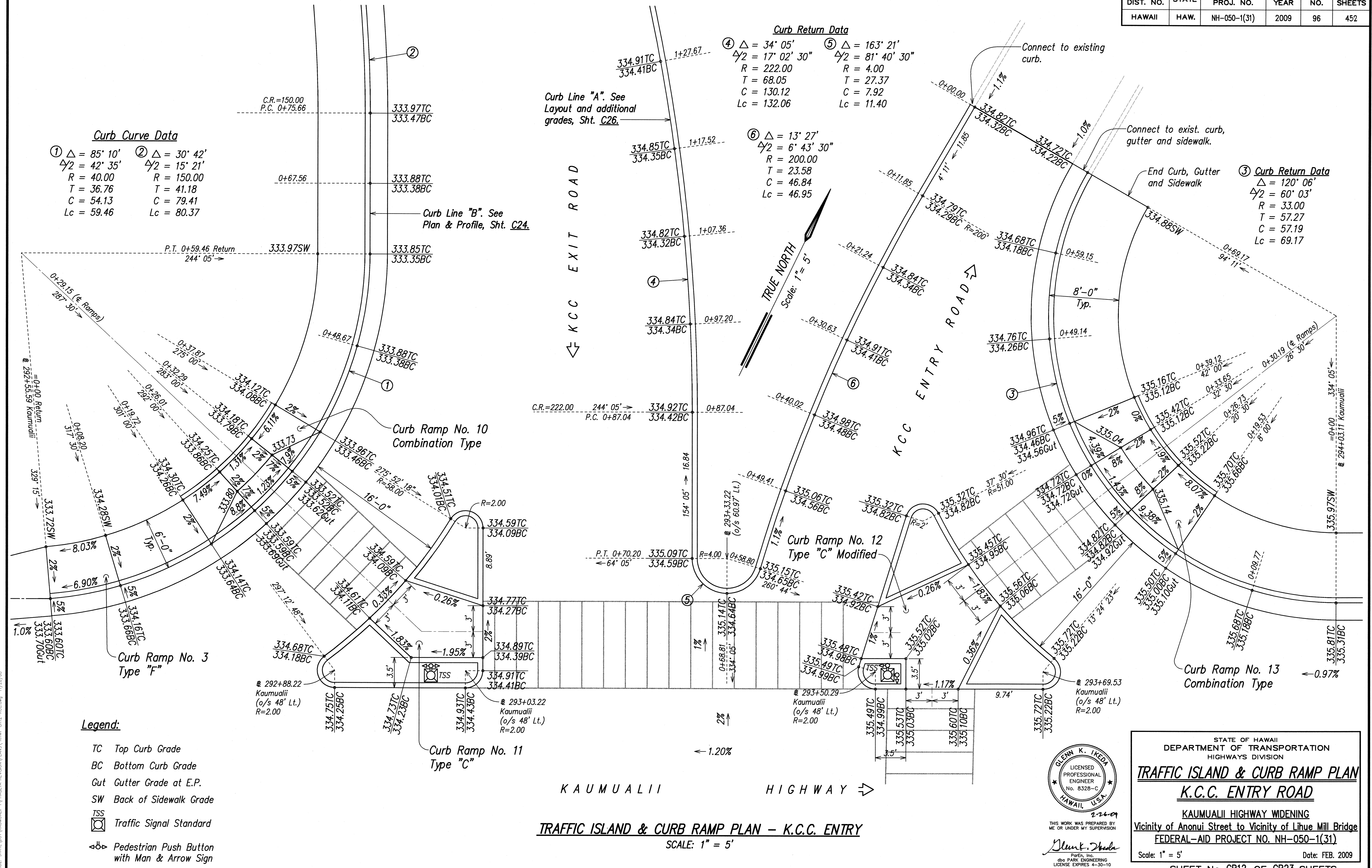
Scale: 1" = 5' Date: JAN. 2010

SHEET No. CR10 OF CR23 SHEETS

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

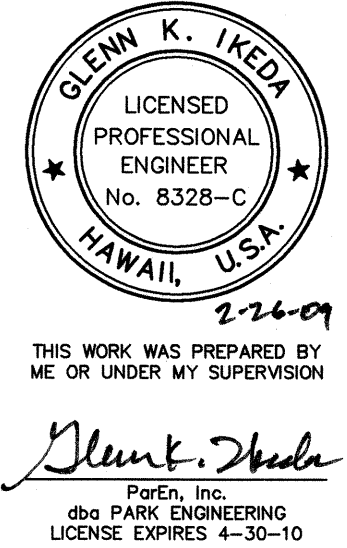
LIB2: STATE/DOH/KAUMUALII-1/PHASE1A REVISION PLANS/COI-CR10-ANO.dwg, 12/22/09

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-050-1(31)	2009	96	452



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

LIBRARY STATE OF HAWAII - TRANSPORTATION DIVISION, 2009-2010, K.C.C. Entry, 1/24/08



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

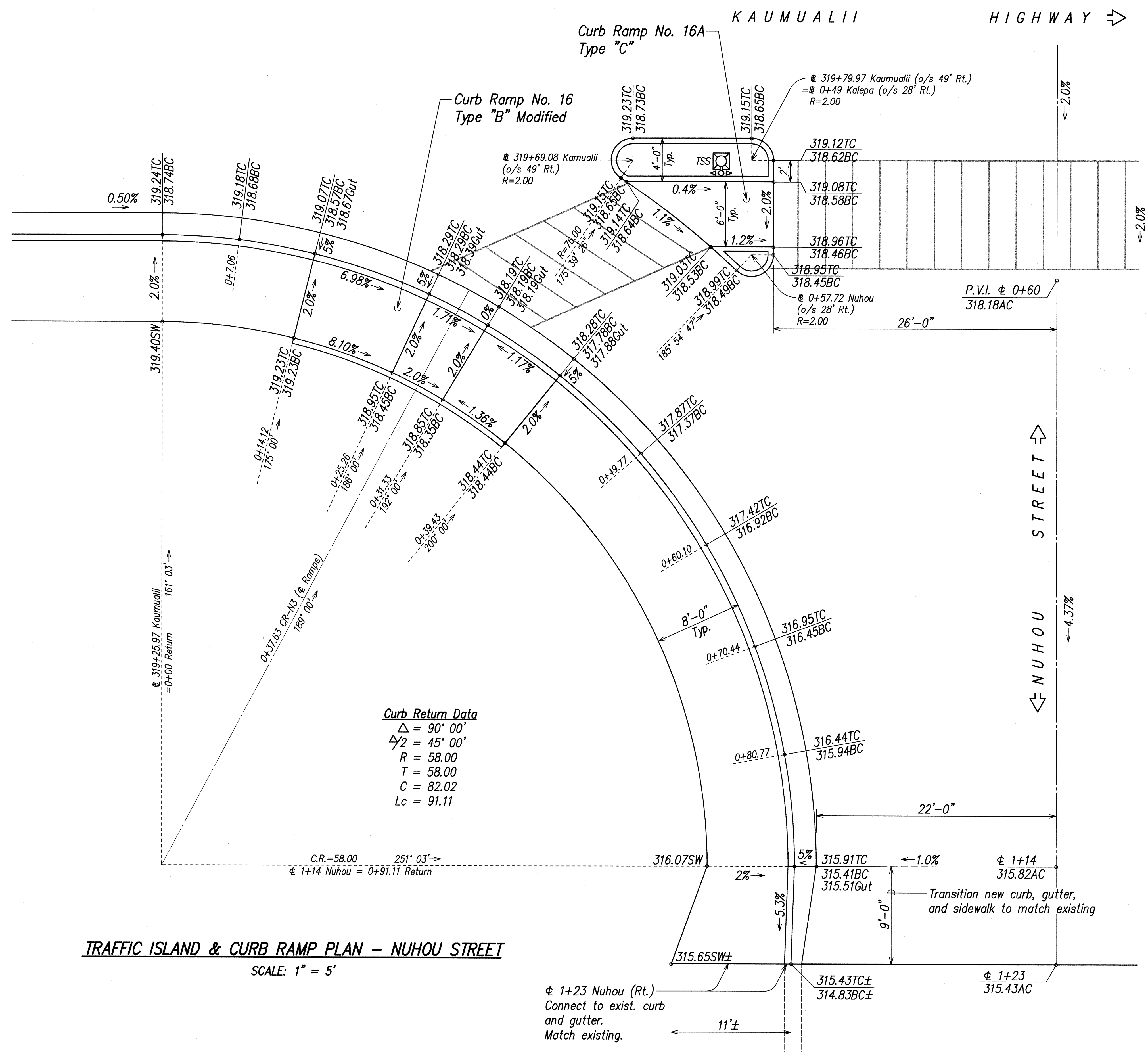
TRAFFIC ISLAND & CURB RAMP PLAN
K.C.C. ENTRY ROAD

KAUMUALII HIGHWAY WIDENING
Vicinity of Anonui Street to Vicinity of Lihue Mill Bridge
FEDERAL-AID PROJECT NO. NH-050-1(31)

Scale: 1" = 5' Date: FEB. 2009

SHEET No. CR12 OF CR23 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-050-1(31)	2009	98	452



- Legend:**
- TC Top Curb Grade
 - BC Bottom Curb Grade
 - Gut Gutter Grade at E.P.
 - SW Back of Sidewalk Grade
 - TSS Traffic Signal Standard
 - ◀▶ Pedestrian Push Button with Man & Arrow Sign

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

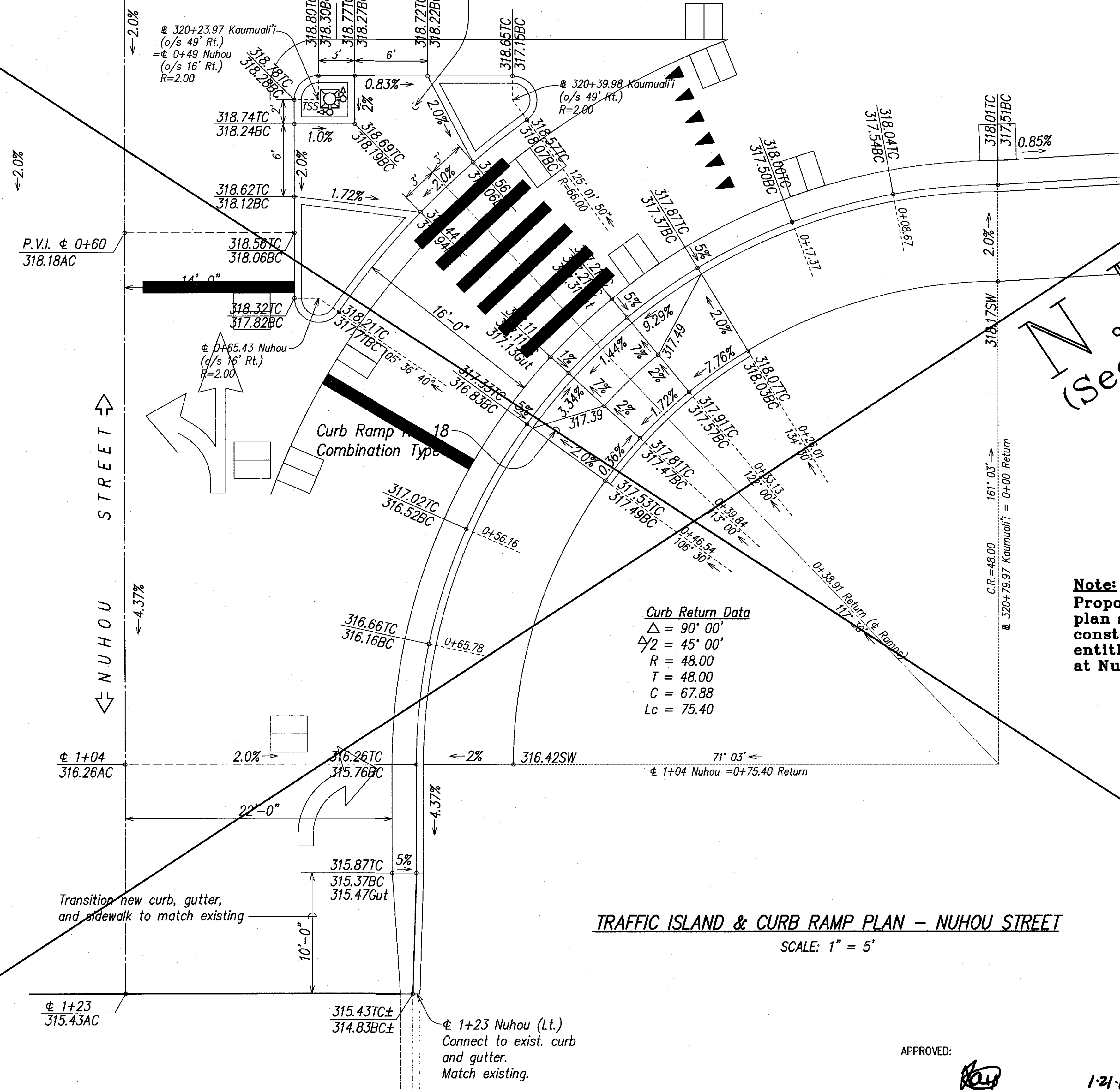
GLENN K. IKEDA
LICENSED PROFESSIONAL ENGINEER
No. 8328-C
HAWAII, U.S.A.
2-21-09
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
Glenn K. Ikeda
PARE, INC.
dba PARK ENGINEERING
LICENSE EXPIRES 4-30-10

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
TRAFFIC ISLAND & CURB RAMP PLAN
NUHOU STREET
KAUMUALII HIGHWAY WIDENING
Vicinity of Anonui Street to Vicinity of Lihue Mill Bridge
FEDERAL-AID PROJECT NO. NH-050-1(31)
Scale: 1" = 5'
Date: FEB. 2009
SHEET No. CR14 OF CR23 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-050-1(31)	2009	99R	452

KAUMUALI'I

HIGHWAY ➡

Curb Ramp No. 17
Type "C" Modified

Legend:

- TC Top Curb Grade
- BC Bottom Curb Grade
- Gut Gutter Grade at E.P.
- SW Back of Sidewalk Grade
- TSS
- Traffic Signal Standard
- Pedestrian Push Button with Man & Arrow Sign

Note:

Proposed improvements shown on this plan sheet superseded by concurrently constructed project for Safeway, Inc., entitled "Kaumualii Highway Widening at Nuhou Street"

LEGEND FOR AS-BUILT POSTINGS

- Squiggly line for as-built deletion
- Double line for as-built deletion
- Roadway Text for as-built posting

TRAFFIC ISLAND & CURB RAMP PLAN - NUHOU STREET

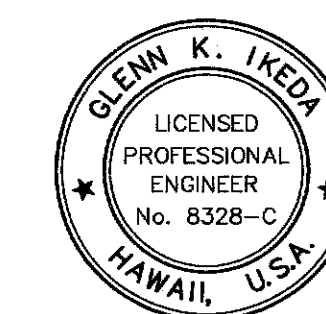
SCALE: 1" = 5'

APPROVED:



County Engineer, Dept. of Public Works
County of Kauai
(For Work Within County R/W)

1-21-11



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Park, Inc.
dba PARK ENGINEERING
LICENSE EXPIRES 4-30-16

6/07/10	Added County of Kauai DPW Approval.
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
TRAFFIC ISLAND & CURB RAMP PLAN NUHOU STREET	
KAUMUALI'I HIGHWAY WIDENING Vicinity of Anonui Street to Vicinity of Lihue Mill Bridge FEDERAL-AID PROJECT NO. NH-050-1(31)	
Scale: 1" = 5'	Date: JAN. 2010
SHEET No. CR15 OF CR23 SHEETS	

"AS-BUILT"

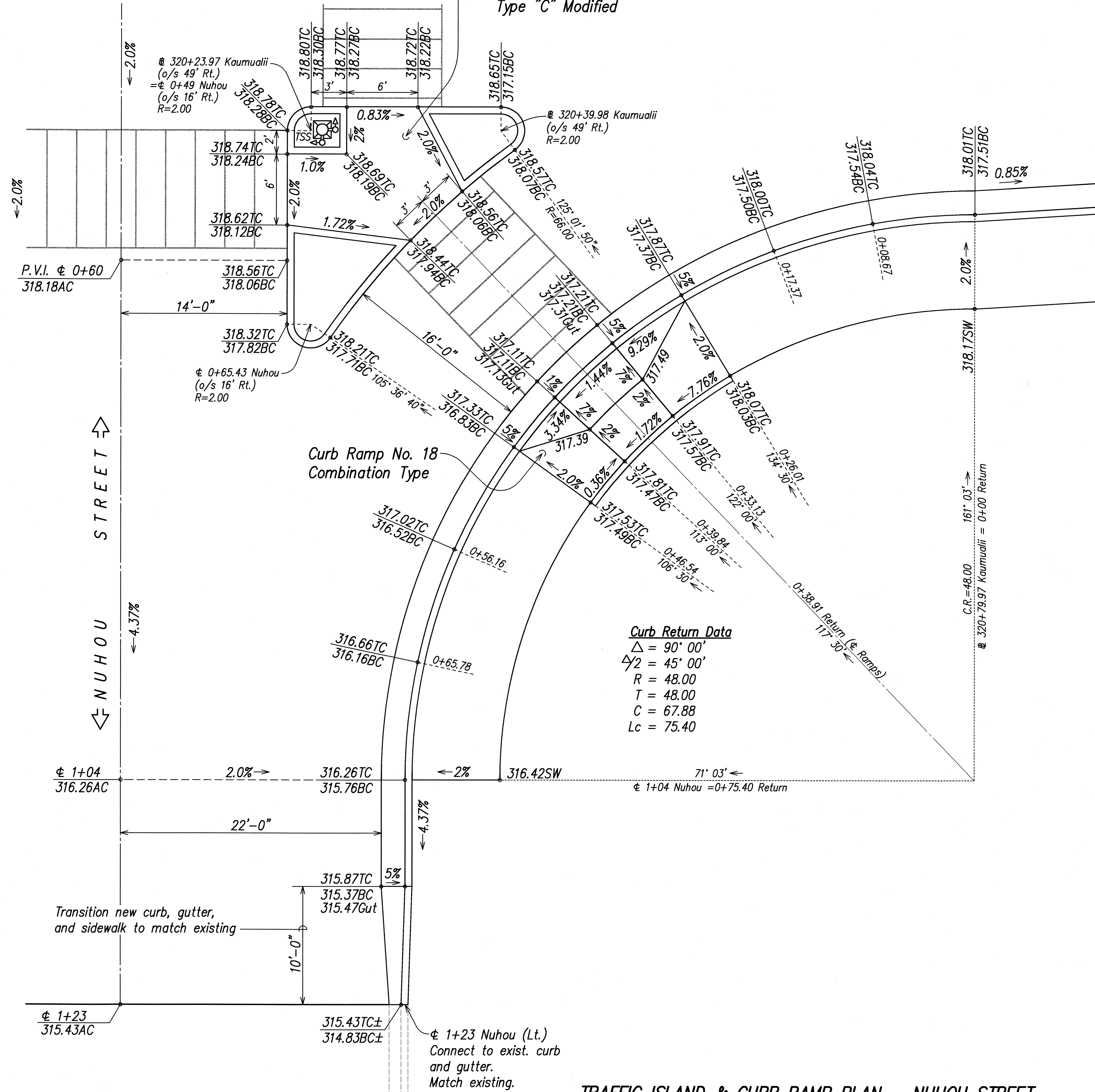
99R

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-050-1(31)	2009	99	452

KAUMUALII

HIGHWAY

Curb Ramp No. 17
Type "C" Modified



Legend:

- TC Top Curb Grade
- BC Bottom Curb Grade
- Gut Gutter Grade at E.P.
- SW Back of Sidewalk Grade
- TSS Traffic Signal Standard
- ↔ Pedestrian Push Button with Man & Arrow Sign

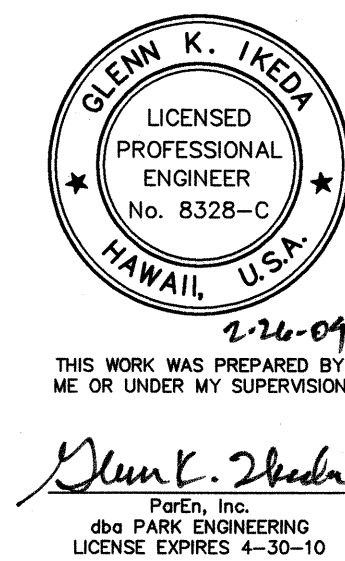
Curb Return Data
 $\Delta = 90^\circ 00'$
 $\Delta/2 = 45^\circ 00'$
 $R = 48.00$
 $T = 48.00$
 $C = 67.88$
 $L_c = 75.40$

SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
QUANTITIES BY	
CHECKED BY	

LIB: STATE OF HAWAII - TRANSPORTATION DIVISION - 2015-01-15 11:25:08

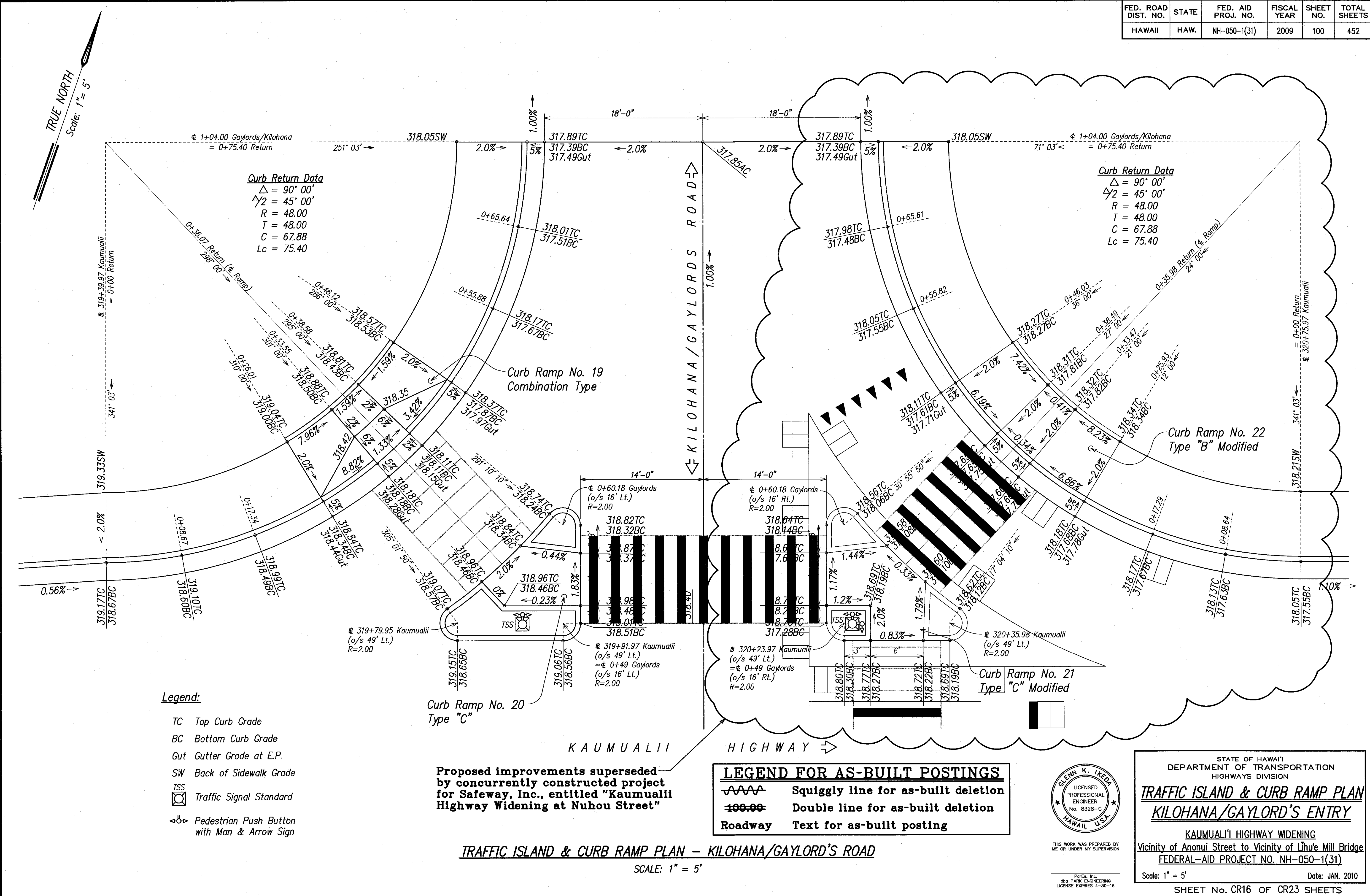
TRAFFIC ISLAND & CURB RAMP PLAN - NUHOU STREET

SCALE: 1" = 5'

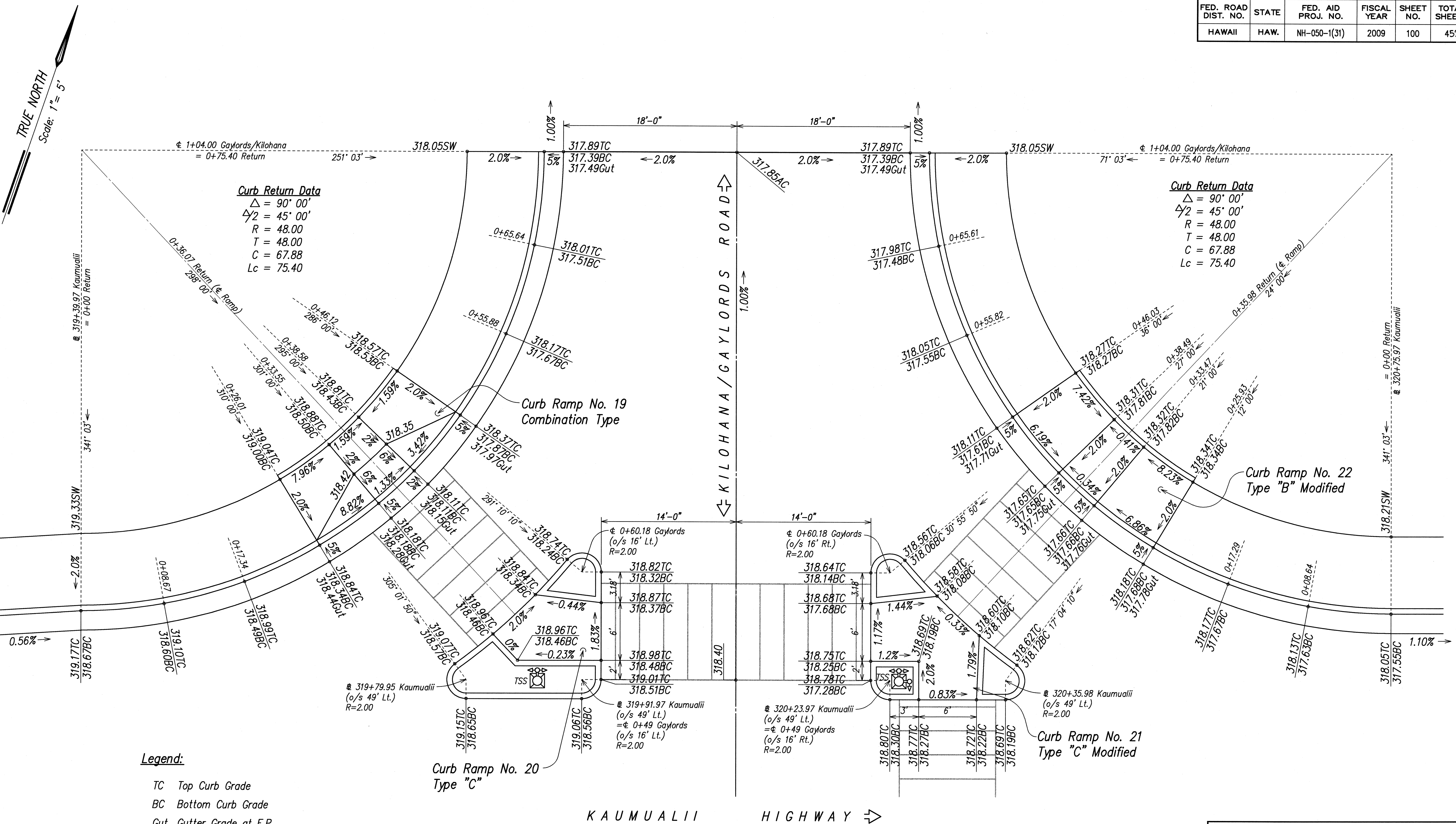


STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
TRAFFIC ISLAND & CURB RAMP PLAN
NUHOU STREET
KAUMUALII HIGHWAY WIDENING
Vicinity of Anonui Street to Vicinity of Lihue Mill Bridge
FEDERAL-AID PROJECT NO. NH-050-1(31)
Scale: 1" = 5' Date: FEB. 2009
SHEET No. CR15 OF CR23 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-050-1(31)	2009	100	452



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-050-1(31)	2009	100	452

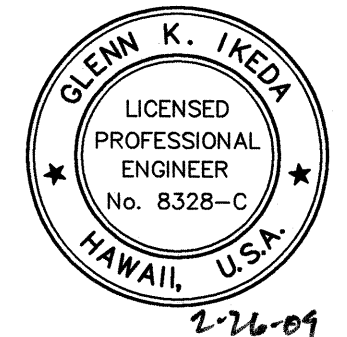


Curb Return Data
 $\Delta = 90^\circ 00'$
 $\Delta/2 = 45^\circ 00'$
 $R = 48.00$
 $T = 48.00$
 $C = 67.88$
 $L_c = 75.40$

Curb Return Data
 $\Delta = 90^\circ 00'$
 $\Delta/2 = 45^\circ 00'$
 $R = 48.00$
 $T = 48.00$
 $C = 67.88$
 $L_c = 75.40$

- Legend:**
- TC Top Curb Grade
 - BC Bottom Curb Grade
 - Gut Gutter Grade at E.P.
 - SW Back of Sidewalk Grade
 - TSS Traffic Signal Standard
 - PB Pedestrian Push Button with Man & Arrow Sign

TRAFFIC ISLAND & CURB RAMP PLAN - KILOHANA/GAYLORD'S ROAD
SCALE: 1" = 5'



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC ISLAND & CURB RAMP PLAN
KILOHANA/GAYLORD'S ENTRY

KAUMUALII HIGHWAY WIDENING
Vicinity of Anonui Street to Vicinity of Lihue Mill Bridge
FEDERAL-AID PROJECT NO. NH-050-1(31)

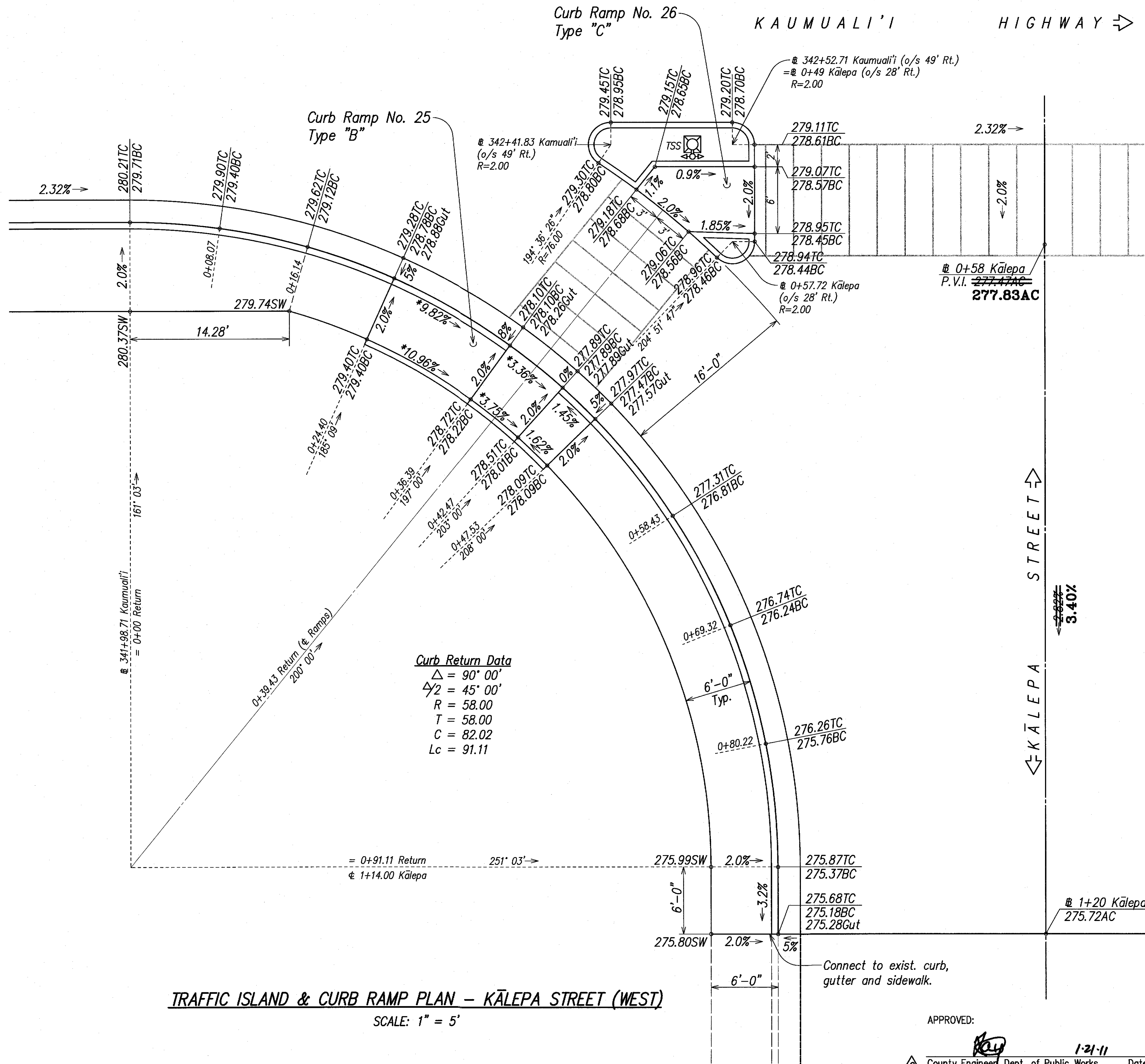
Scale: 1" = 5' Date: FEB. 2009

SHEET No. CR16 OF CR23 SHEETS

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

LIBRARY STATE OF HAWAII - DEPARTMENT OF TRANSPORTATION, HIGHWAYS DIVISION, 11/15/08

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-050-1(31)	2009	101R	452



**LEGEND FOR
AS-BUILT POSTINGS**

Squiggly line for
as-built deletion

Double line for
as-built deletion

Roadway Text for as-built
posting

Legend:

- TC Top Curb Grade
- BC Bottom Curb Grade
- Gut Gutter Grade at E.P.
- SW Back of Sidewalk Grade
- TSS Traffic Signal Standard
- Pedestrian Push Button
with Man & Arrow Sign
- (*) Technically Infeasible

SURVEY PLOTTED BY	DATE
DRAWN BY	
CHECKED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	
No.	

TRAFFIC ISLAND & CURB RAMP PLAN – KĀLEPA STREET (WEST)

SCALE: 1" = 5'

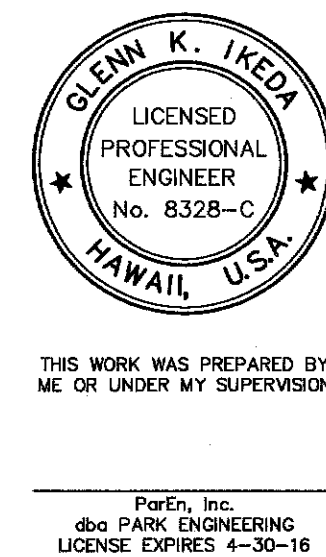
APPROVED:

1-21-11

County Engineer, Dept. of Public Works Date

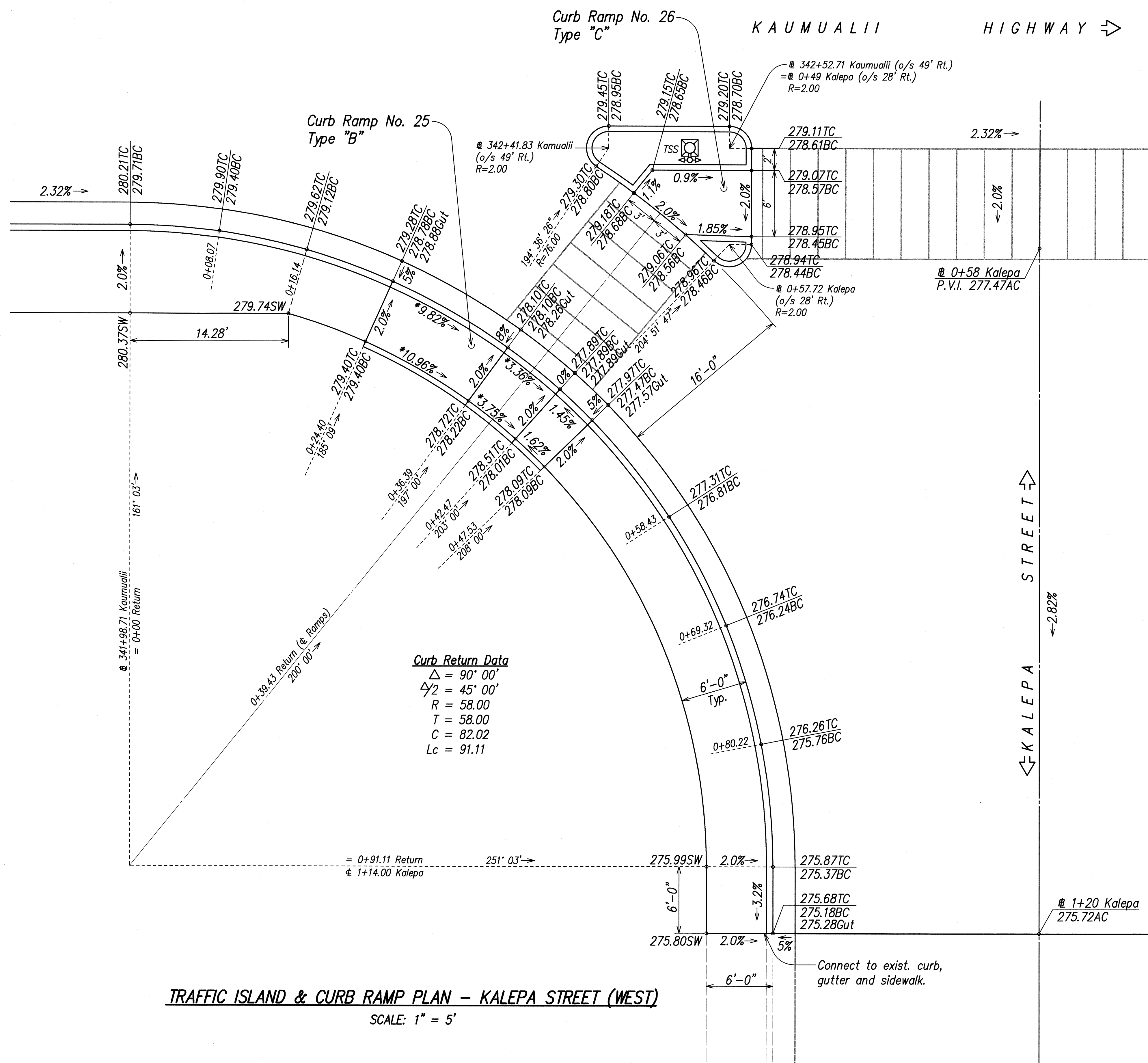
County of Kauai

(For Work Within County R/W)



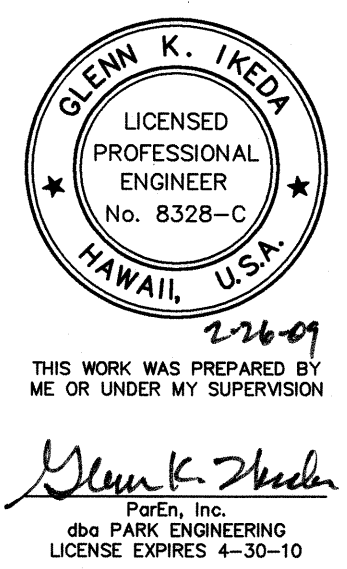
6/07/10	Added County of Kauai DPW Approval.
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
TRAFFIC ISLAND & CURB RAMP PLAN	
KĀLEPA STREET (WEST)	
KAUMUALI'Ī HIGHWAY WIDENING	
Vicinity of Anonui Street to Vicinity of Lihue Mill Bridge	
FEDERAL-AID PROJECT NO. NH-050-1(31)	
Scale: 1" = 5'	Date: JAN. 2010
SHEET No. CR17 OF CR23 SHEETS	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-050-1(31)	2009	101	452



TRAFFIC ISLAND & CURB RAMP PLAN - KALEPA STREET (WEST)
SCALE: 1" = 5'

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



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

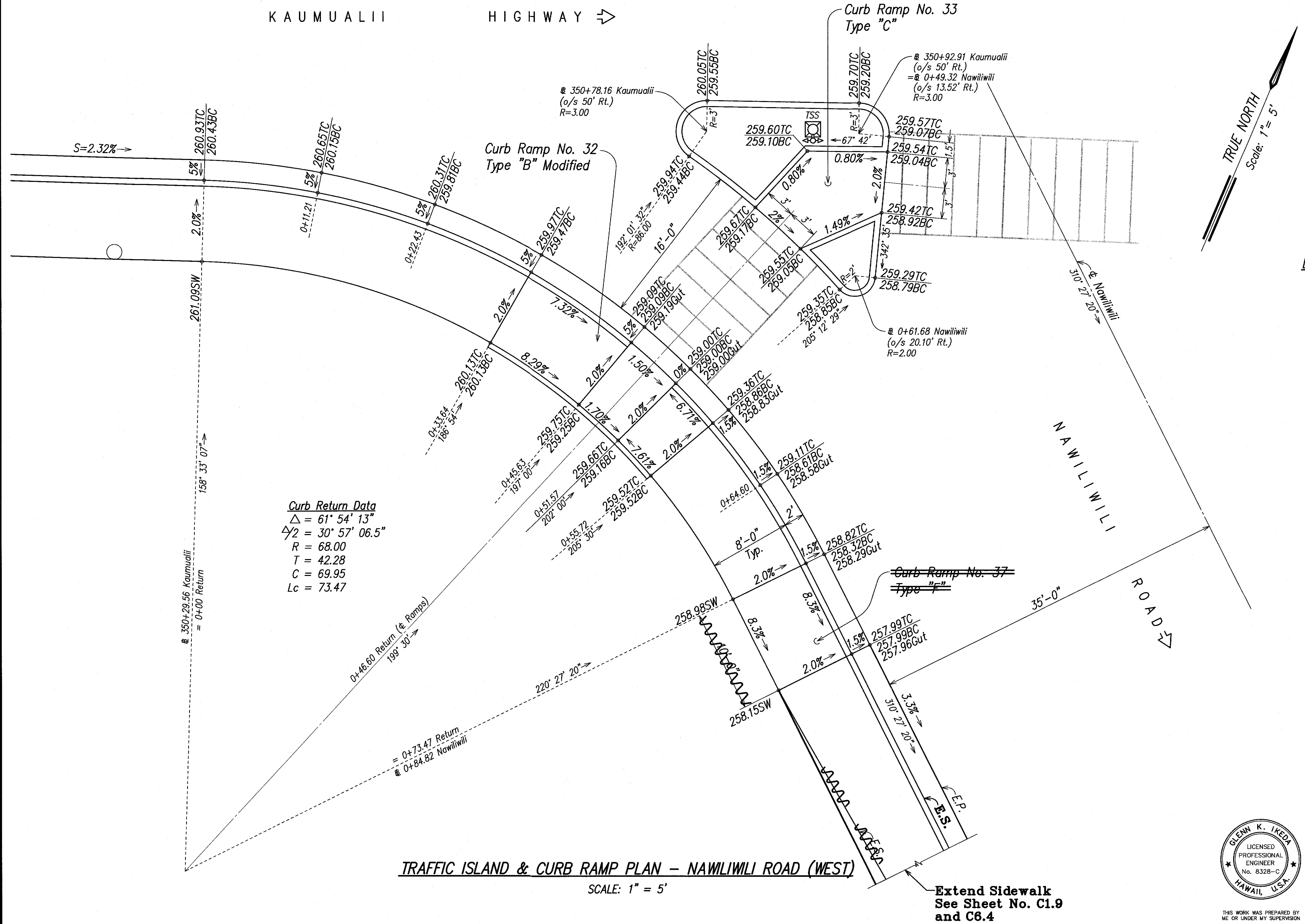
TRAFFIC ISLAND & CURB RAMP PLAN
KALEPA STREET (WEST)

KAUMUALII HIGHWAY WIDENING
Vicinity of Anonui Street to Vicinity of Lihue Mill Bridge
FEDERAL-AID PROJECT NO. NH-050-1(31)

Scale: 1" = 5' Date: FEB. 2009

SHEET No. CR17 OF CR23 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-050-1(31)	2009	103	452



Curb Return Data
 $\Delta = 61^{\circ} 54' 13''$
 $\Delta/2 = 30^{\circ} 57' 06.5''$
 $R = 68.00$
 $T = 42.28$
 $C = 69.95$
 $L_c = 73.47$

- Legend:**
- TC Top Curb Grade
 - BC Bottom Curb Grade
 - Gut Gutter Grade at E.P.
 - SW Back of Sidewalk Grade
 - TSS Traffic Signal Standard
 - Man & Arrow Sign Pedestrian Push Button with Man & Arrow Sign

LEGEND FOR AS-BUILT POSTINGS

- Squiggly line for as-built deletion
- Double line for as-built deletion
- Text for as-built posting

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC ISLAND & CURB RAMP PLAN
NAWILIWILI ROAD (WEST)

KAUMUALII HIGHWAY WIDENING
Vicinity of Anonui Street to Vicinity of Lihue Mill Bridge
FEDERAL-AID PROJECT NO. NH-050-1(31)

Scale: 1" = 5' Date: JAN. 2010

SHEET No. CR19 OF CR23 SHEETS



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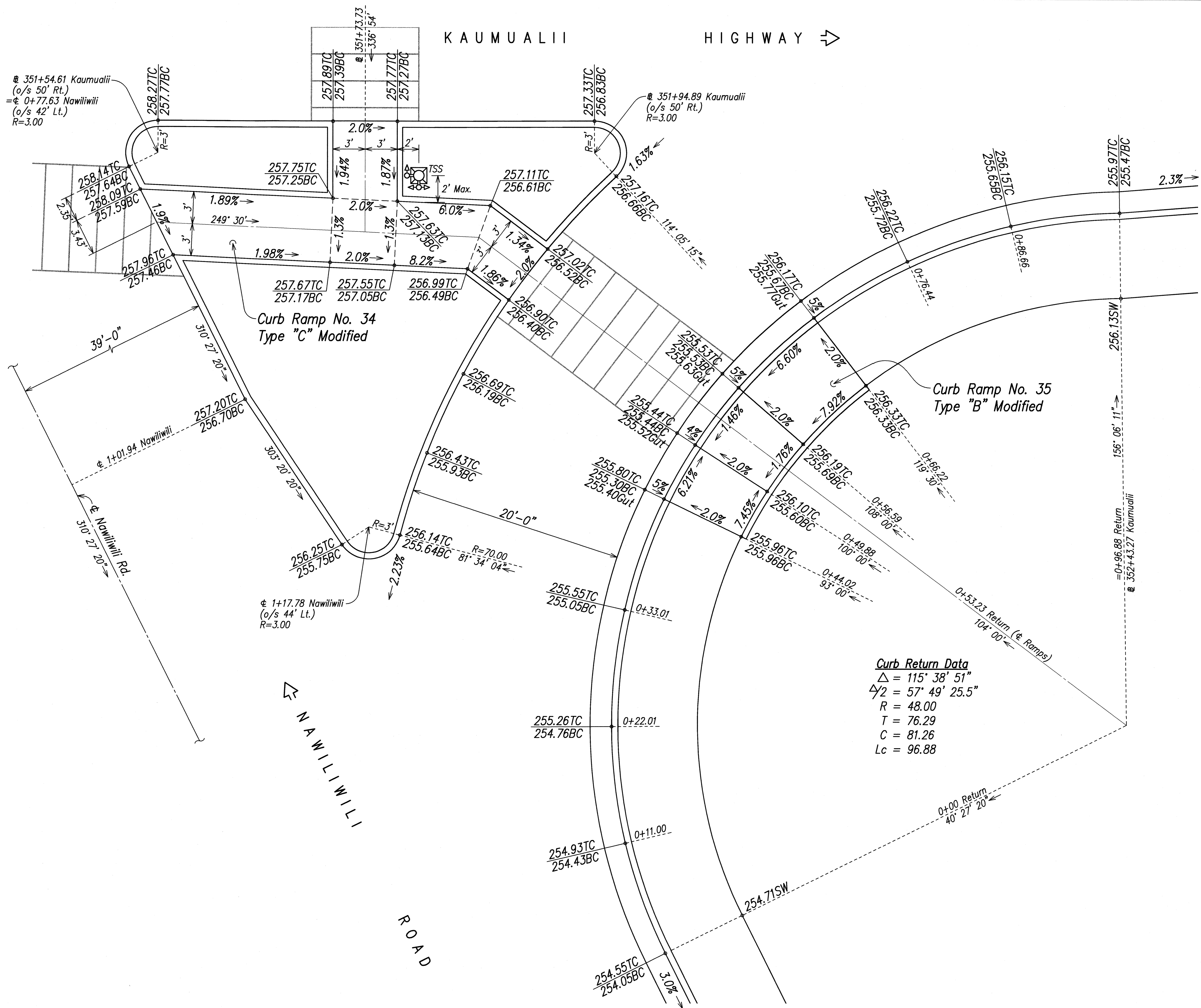
P&E, INC.
dba PARK ENGINEERING
LICENSE EXPIRES 4-30-16

Extend Sidewalk
See Sheet No. C1.9
and C6.4

TRAFFIC ISLAND & CURB RAMP PLAN - NAWILIWILI ROAD (WEST)
SCALE: 1" = 5'

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-050-1(31)	2009	104	452



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
	TRACED BY	
	CHECKED BY	
	QUANTITIES BY	
	CHECKED BY	

1042 STATE OF HAWAII - PHASE 1A REVISION PLANS, NEW P-0520-HAWZ.dwg 11/29/08

TRAFFIC ISLAND & CURB RAMP PLAN - NAWILIWILI STREET (EAST)

SCALE: 1" = 5'



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION
Glen K. Ikeda
GKI, Inc.
484 PARK ENGINEERING
LICENSE EXPIRES 4-30-10

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC ISLAND & CURB RAMP PLAN
NAWILIWILI ROAD (EAST)

KAUMUALII HIGHWAY WIDENING
Vicinity of Anonui Street to Vicinity of Lihue Mill Bridge
FEDERAL-AID PROJECT NO. NH-050-1(31)

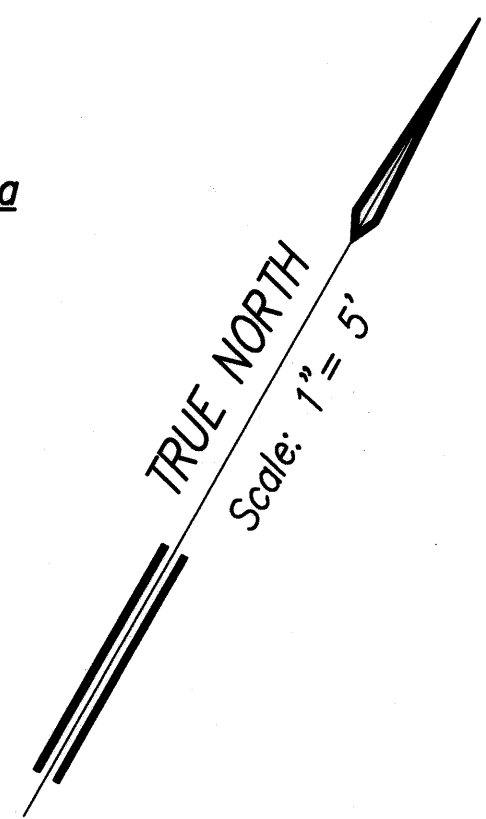
Scale: 1" = 5' Date: FEB. 2009

SHEET No. CR20 OF CR23 SHEETS

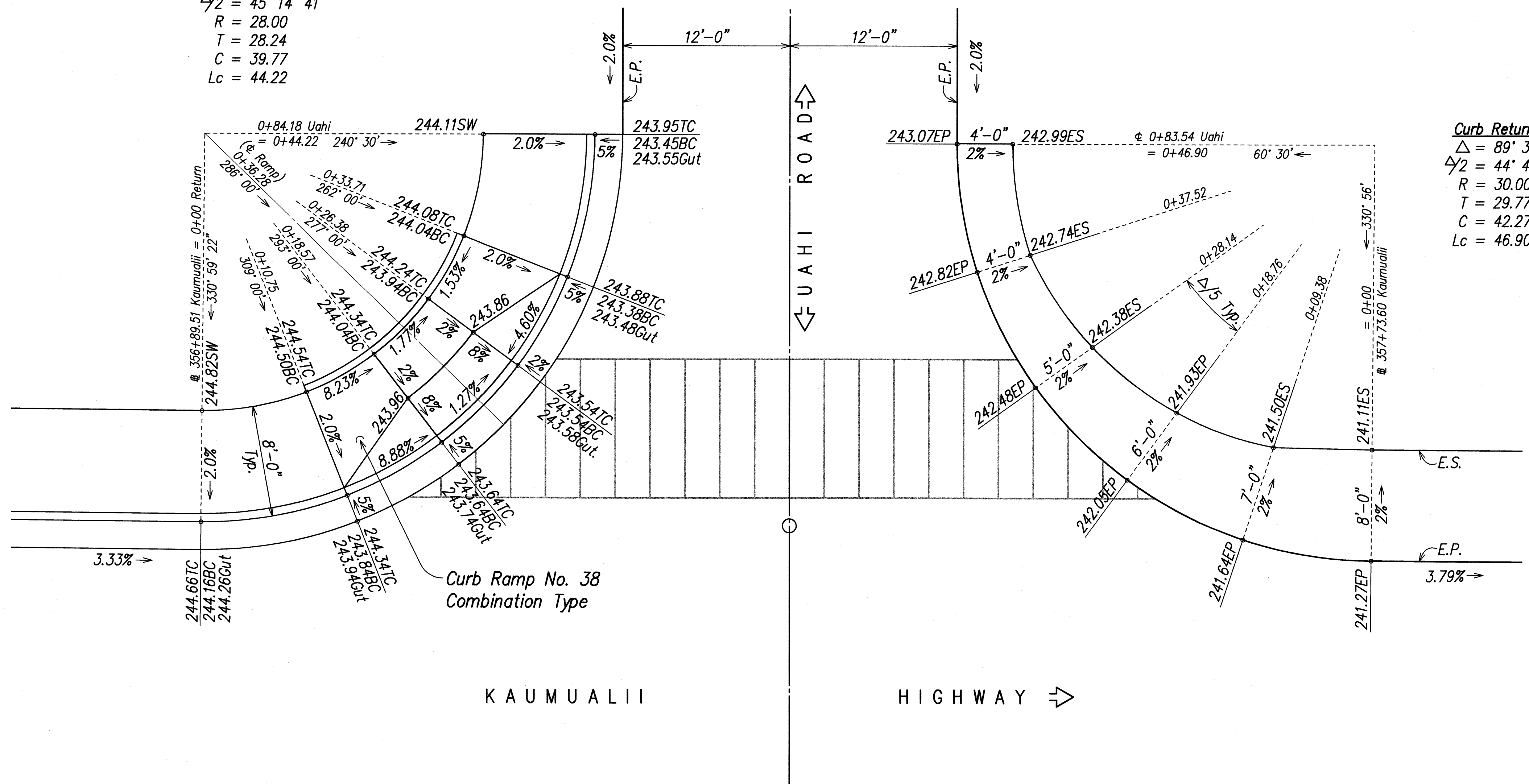
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-050-1(31)	2009	105	452

Curb Return Data
 $\Delta = 90^{\circ} 29' 22''$
 $\Delta/2 = 45^{\circ} 14' 41''$
 $R = 28.00$
 $T = 28.24$
 $C = 39.77$
 $Lc = 44.22$

Curb Return Data
 $\Delta = 89^{\circ} 34'$
 $\Delta/2 = 44^{\circ} 47'$
 $R = 30.00$
 $T = 29.77$
 $C = 42.27$
 $Lc = 46.90$



- Legend:
- TC Top Curb Grade
 - BC Bottom Curb Grade
 - Gut Gutter Grade at E.P.
 - SW Back of Sidewalk Grade
 - EP Edge of Pavement Grade
 - ES Edge of Shoulder Grade



CURB RAMP PLAN - UAHU ROAD
SCALE: 1" = 5'

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

100% STATE/NOT/KAUMUALII-VIAPASEA REGIONAL PLAN, KAHU-050-021-1001.dwg, 11/26/08



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
Glenn K. Ikeda
P.E. Inc.
dba PARK ENGINEERING
LICENSE EXPIRES 4-30-10

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CURB RAMP PLAN
UAHU ROAD

KAUMUALII HIGHWAY WIDENING
Vicinity of Anonui Street to Vicinity of Lihue Mill Bridge
FEDERAL-AID PROJECT NO. NH-050-1(31)

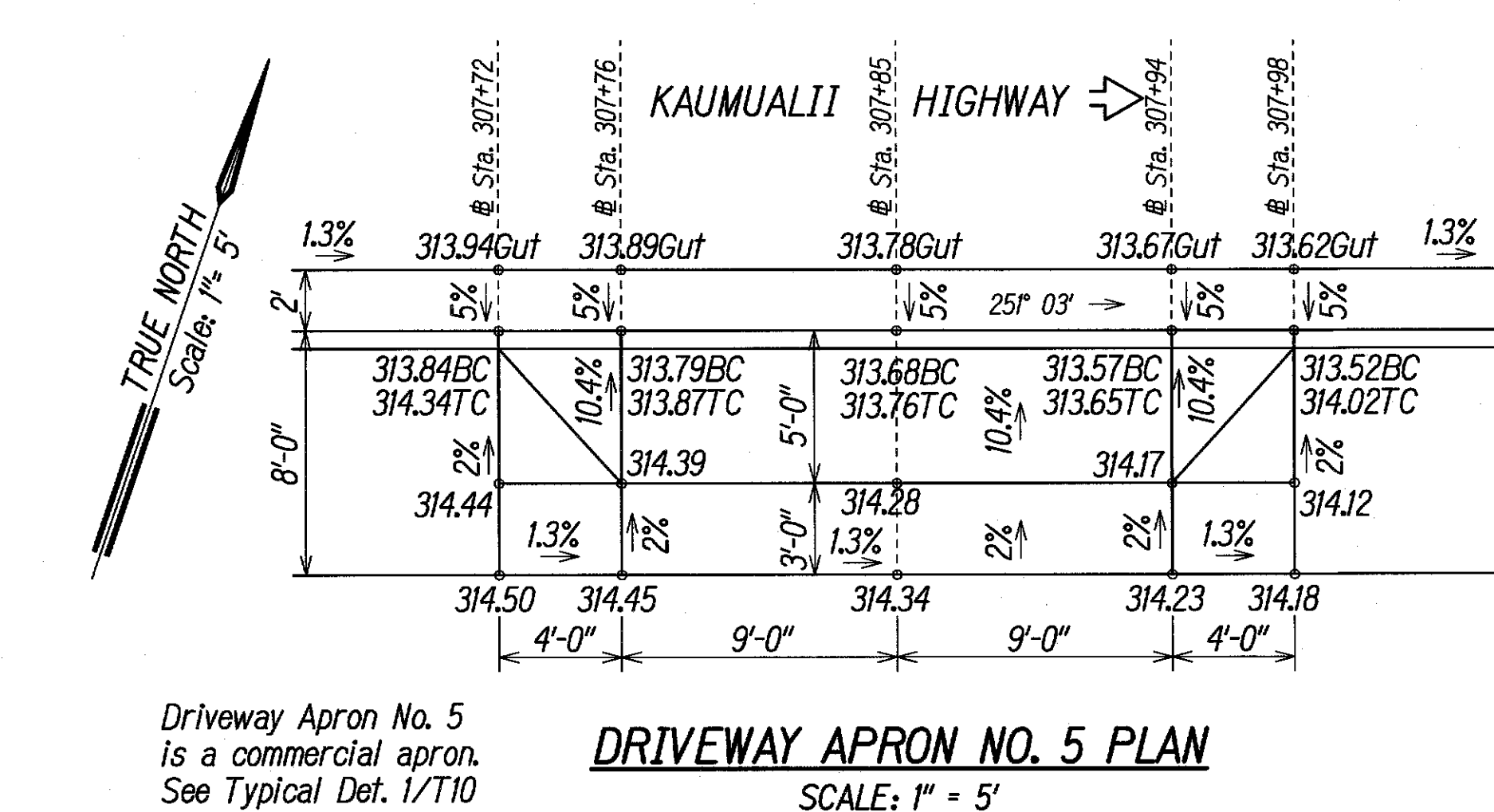
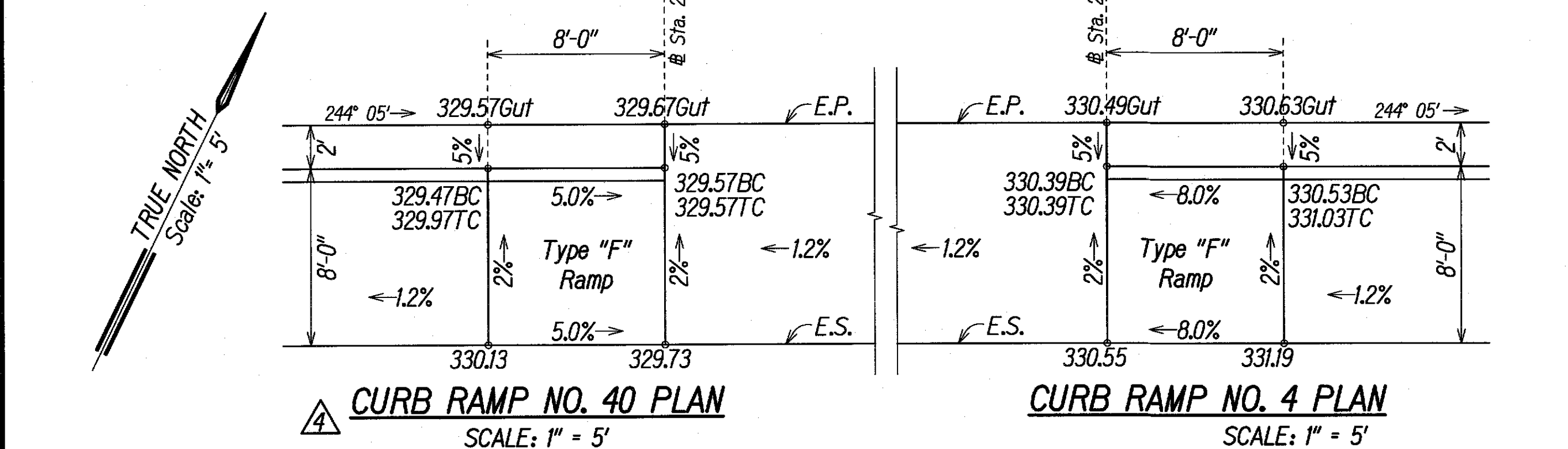
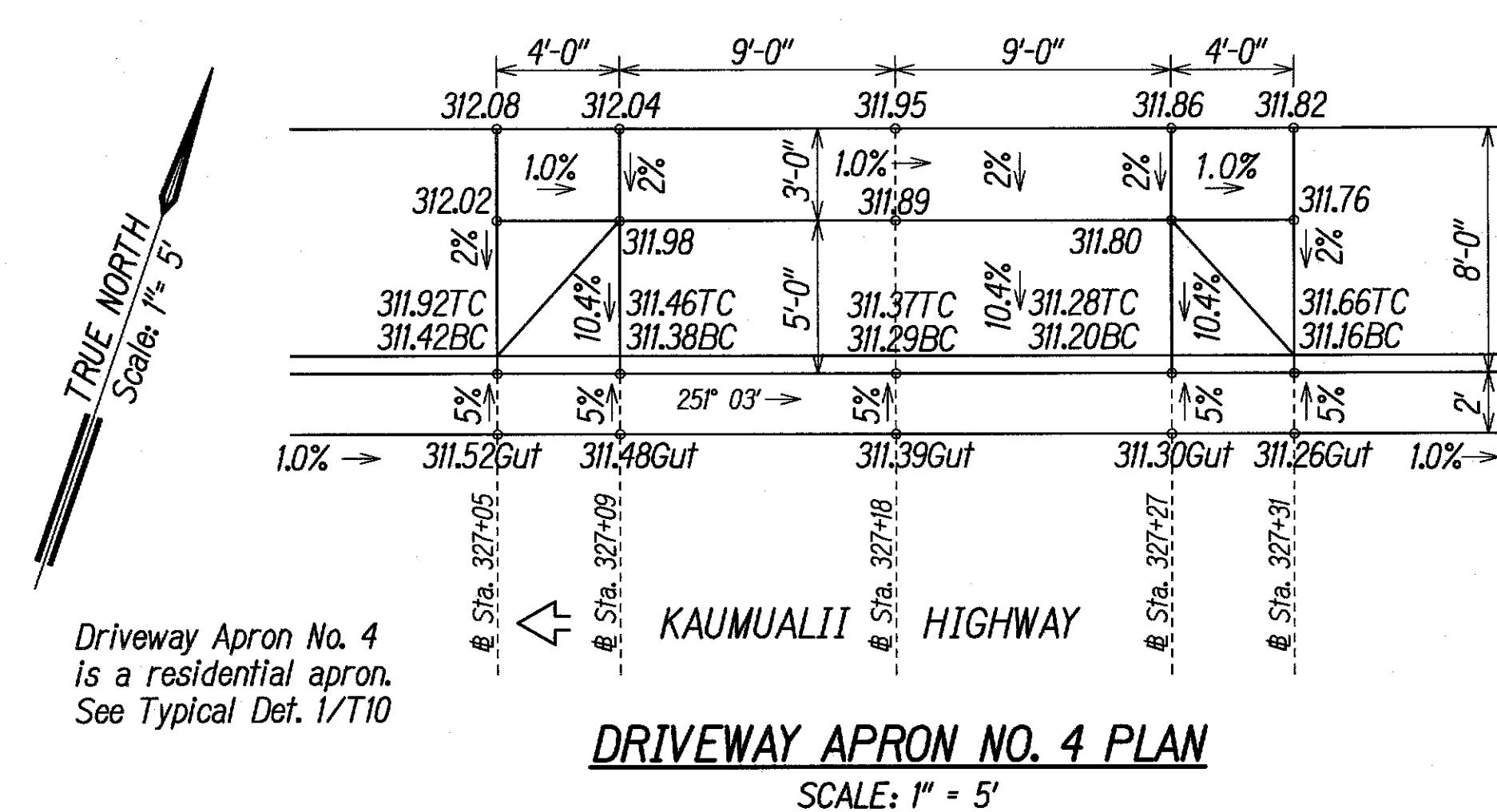
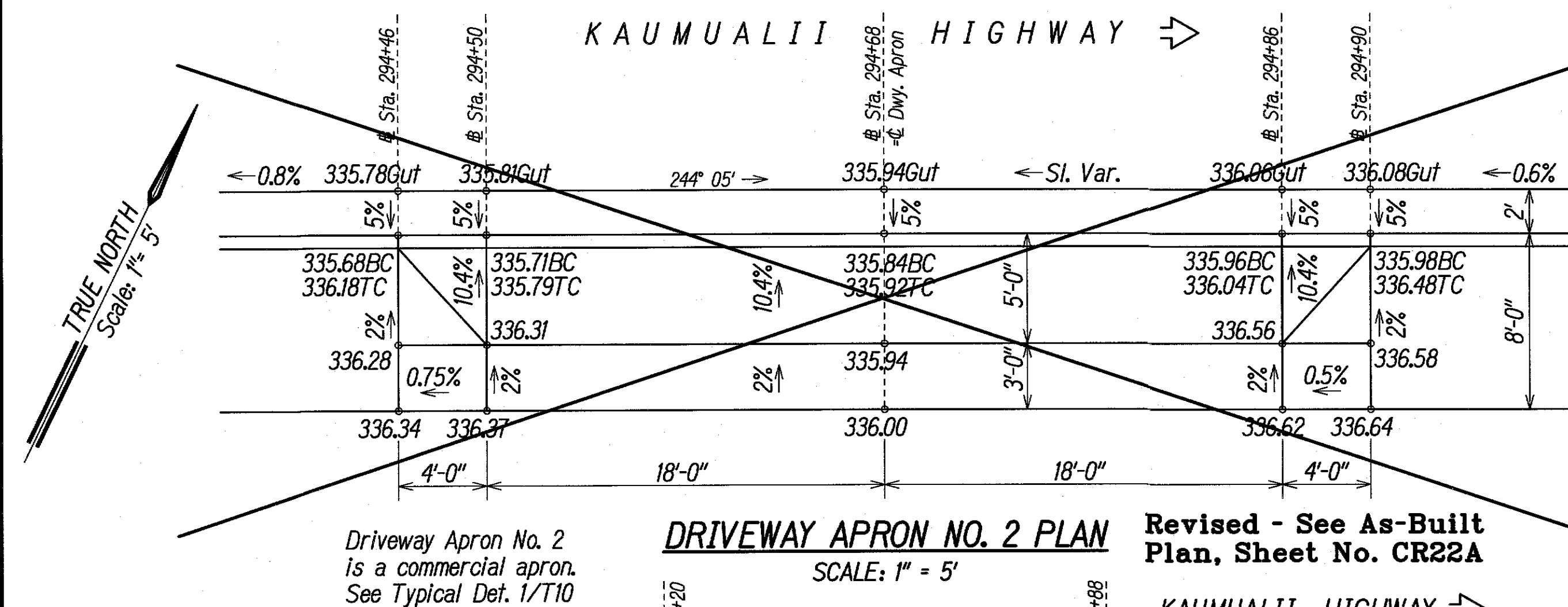
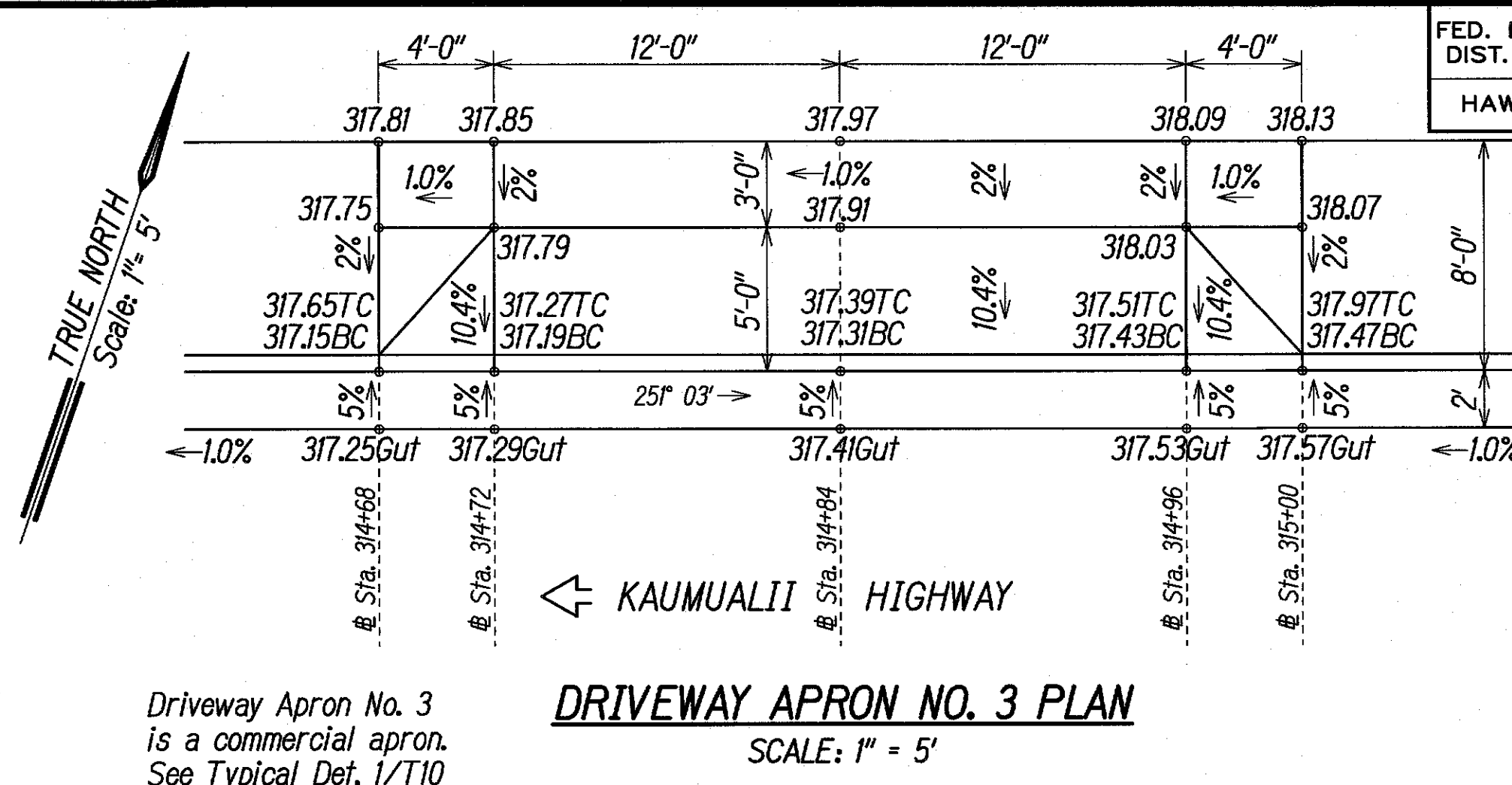
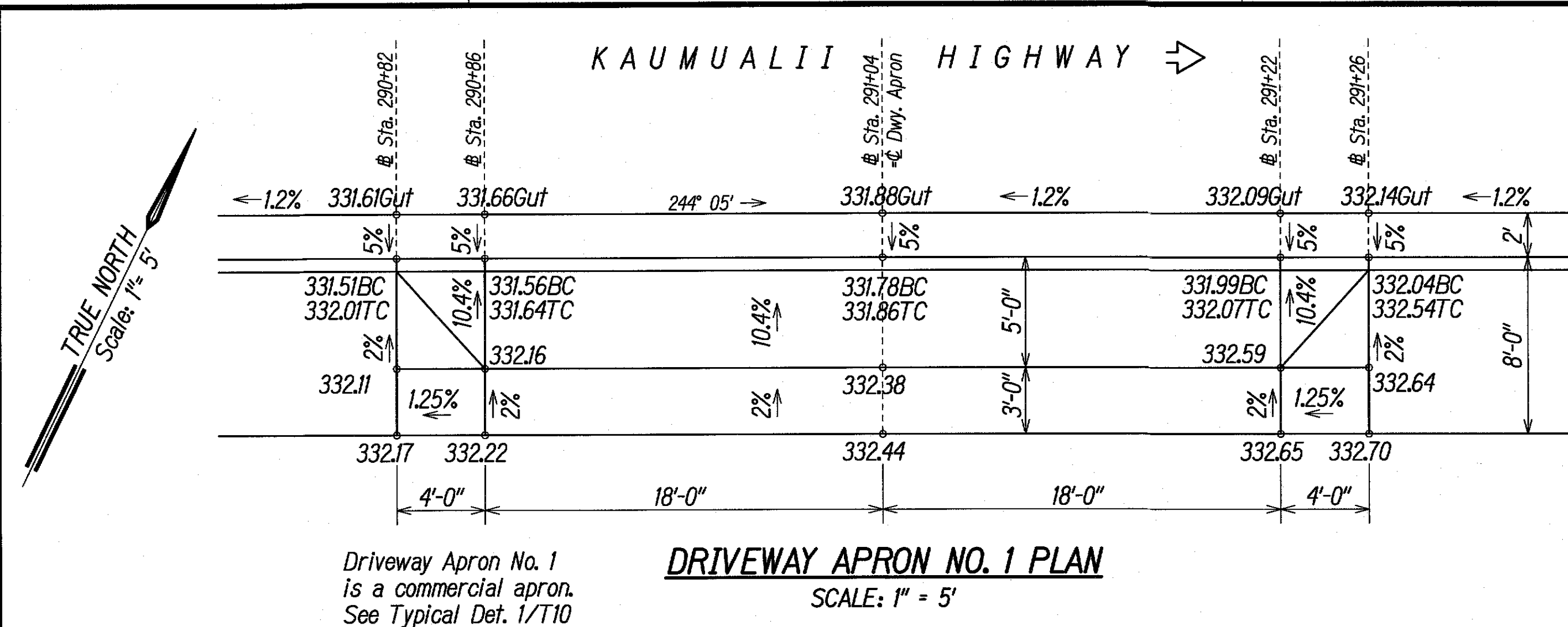
Scale: 1" = 5' Date: FEB. 2009

SHEET No. CR21 OF CR23 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-050-1(31)	2009	C.O.106	452

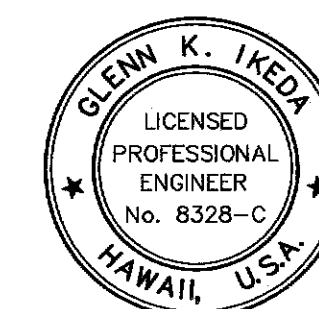
Legend:

- TC Top Curb Grade
- BC Bottom Curb Grade
- Gut Gutter Grade at E.P.
- SW Back of Sidewalk Grade
- TSS Traffic Signal Standard
- Pedestrian Push Button with Man & Arrow Sign



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

2/01/10	Added Curb Ramp No. 40.
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
CURB RAMP PLAN VARIOUS LOCATIONS	
KAUMUALII HIGHWAY WIDENING Vicinity of Anonui Street to Vicinity of Lihue Mill Bridge FEDERAL-AID PROJECT NO. NH-050-1(31)	
Scale: 1" = 5'	Date: JAN. 2010
SHEET NO. CR22 OF CR23 SHEETS	



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Park, Inc.
also PARK ENGINEERING
LICENSE EXPIRES 4-30-16

"AS-BUILT"

C.O. 106

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-050-1(31)	2009	106 S-1	452

Legend:

TC Top Curb Grade

BC Bottom Curb Grade

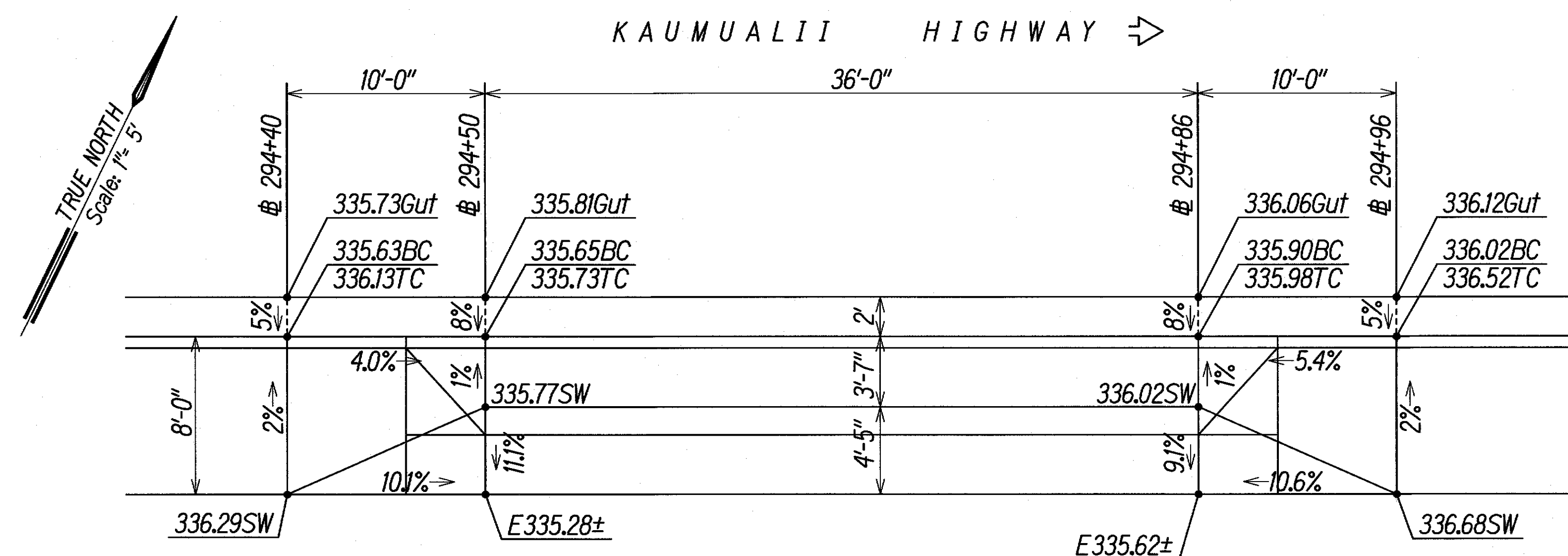
Gut Gutter Grade at E.P.

SW Back of Sidewalk Grade

TSS

Traffic Signal Standard

◀○▶ Pedestrian Push Button
with Man & Arrow Sign



AS-BUILT
DRIVEWAY APRON NO. 2 PLAN
SCALE: 1" = 5'

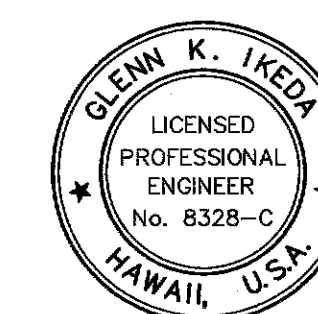
LEGEND FOR AS-BUILT POSTINGS

 Squiggly line for as-built deletion

~~100.00~~ Double line for
as-built deletion

Roadway	Text for as-built posting
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6/00/15	New Sheet for As-Built.
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
<u>DRIVEWAY APRON NO. 2 PLAN</u>	
<u>KAUMUALI'I HIGHWAY WIDENING</u> Vicinity of Anonui Street to Vicinity of Lihue Mill Bridge <u>FEDERAL-AID PROJECT NO. NH-050-1(31)</u>	
Scale: 1" = 5'	Date: JAN. 2010
SHEET No. CR22A OF CR23 SHEETS	



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ME OR UNDER MY SUPERVISOR

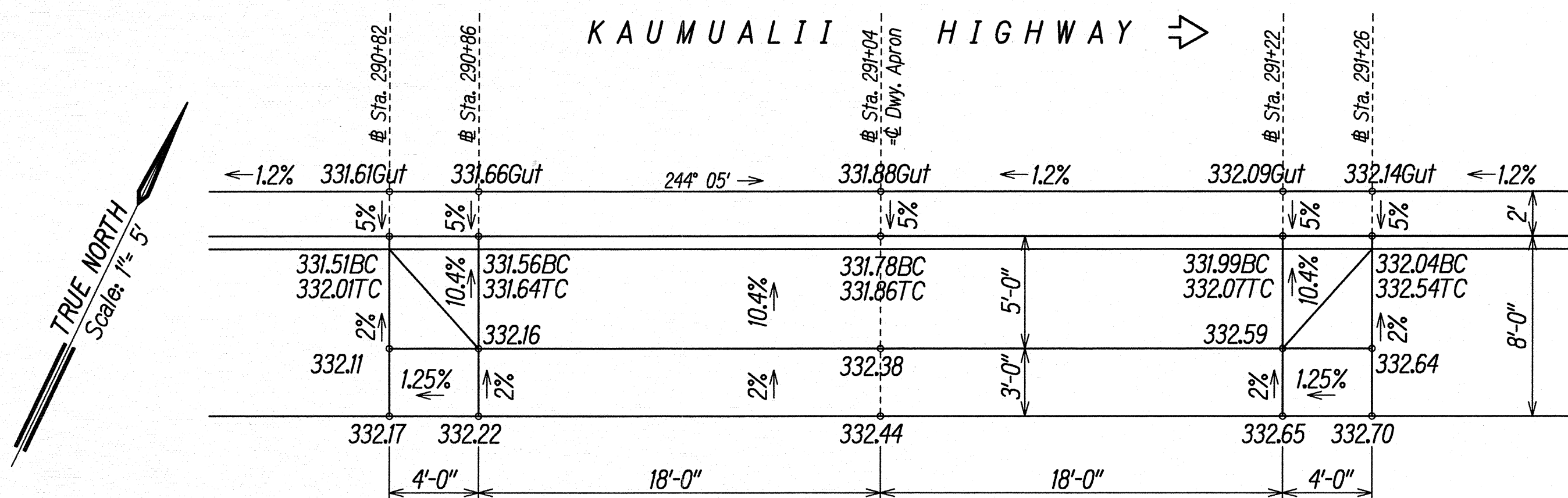
ParEn, Inc.
dba PARK ENGINEERING
LICENSE EXPIRES 4-30-1

"AS-BUILT"

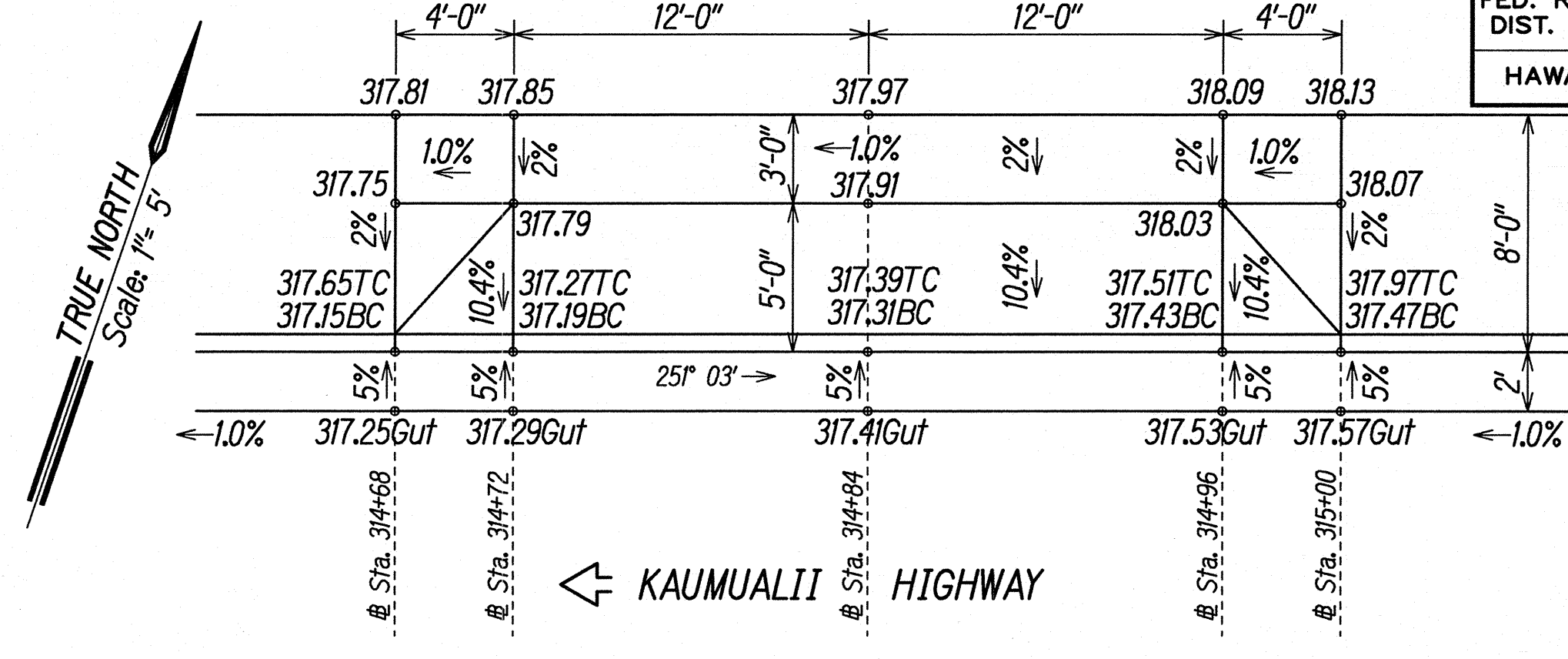
106 S-1

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-050-1(31)	2009	C.O.106	452

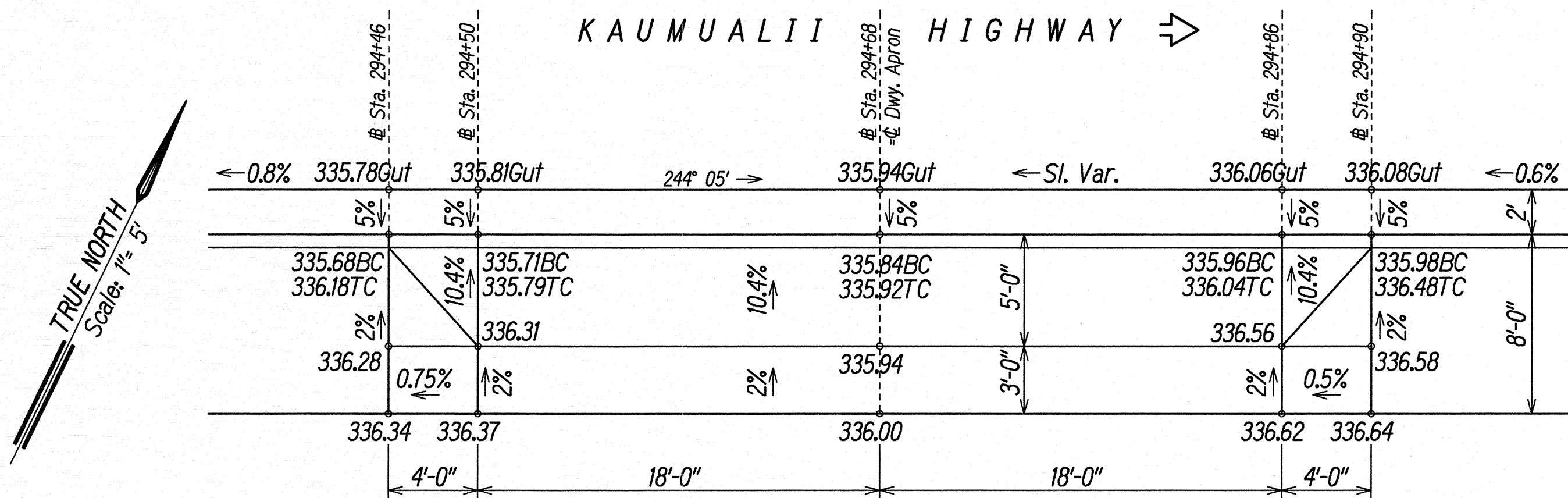
- Legend:**
- TC Top Curb Grade
 - BC Bottom Curb Grade
 - Gut Gutter Grade at E.P.
 - SW Back of Sidewalk Grade
 - TSS Traffic Signal Standard
 - ◀▶ Pedestrian Push Button with Man & Arrow Sign



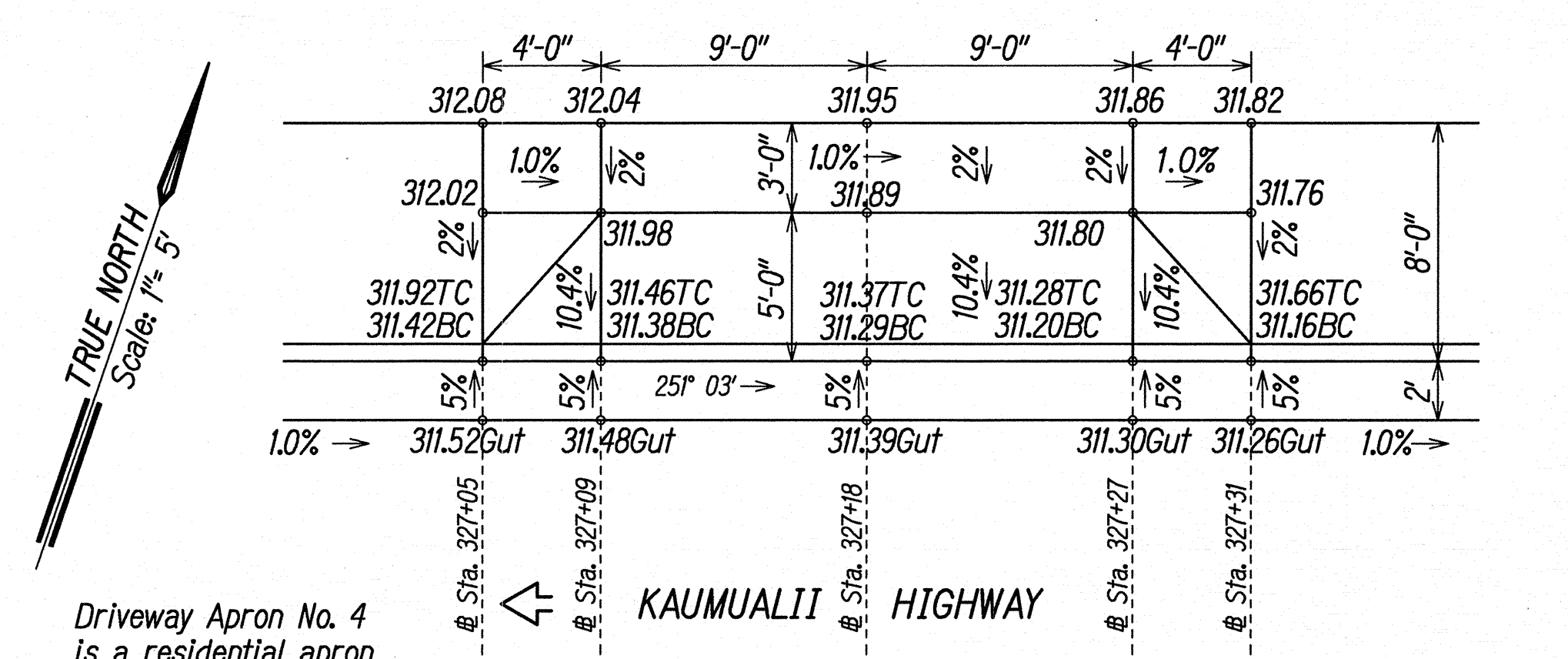
DRIVEWAY APRON NO. 1 PLAN
SCALE: 1" = 5'



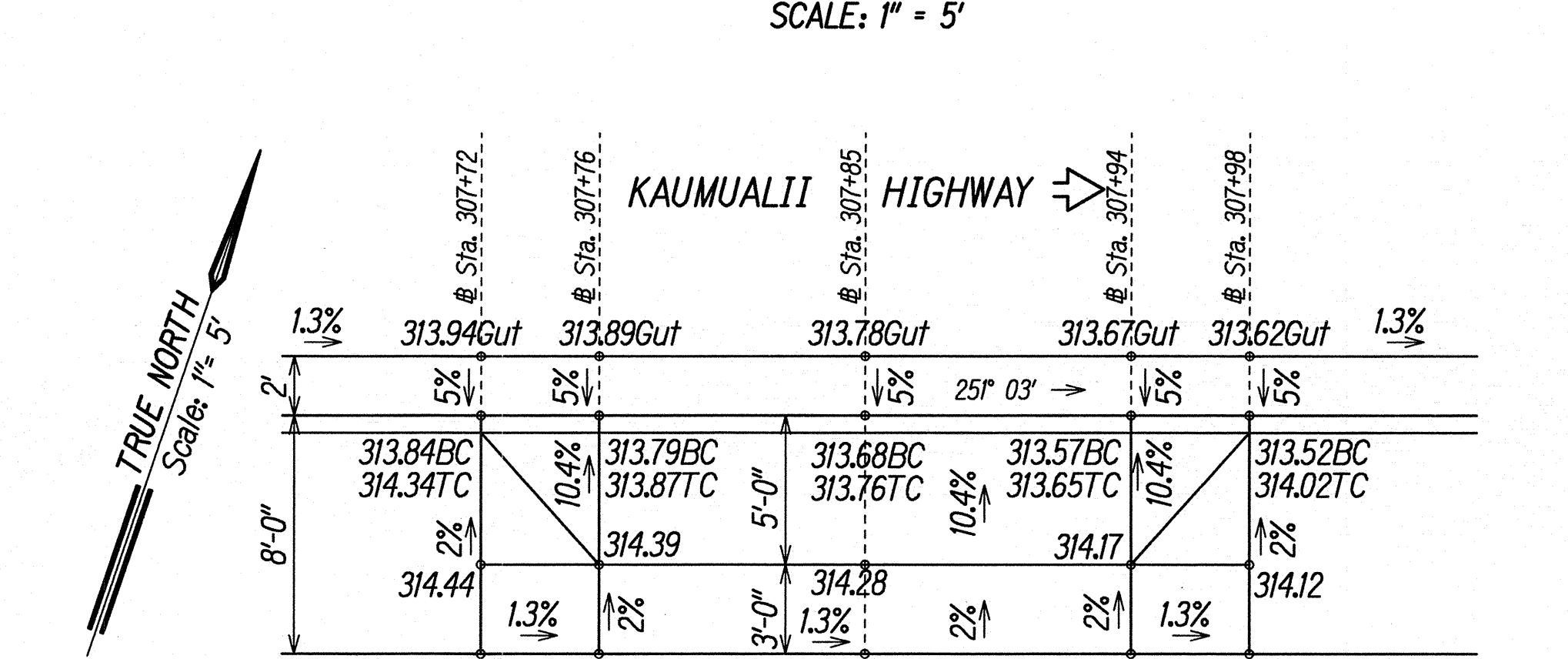
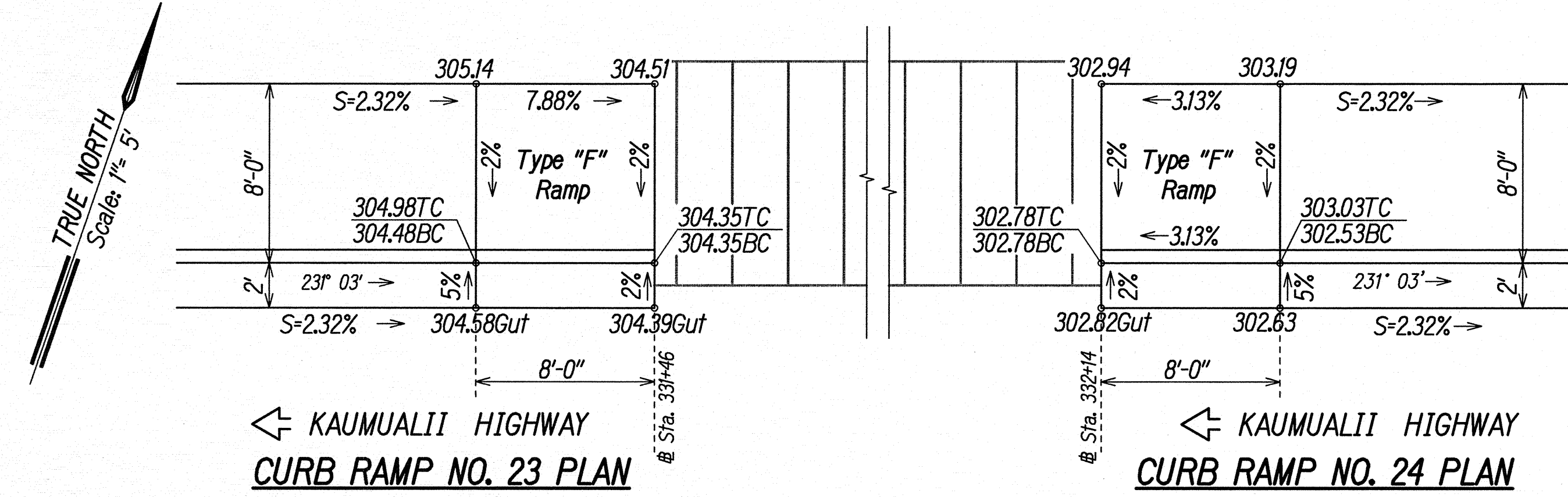
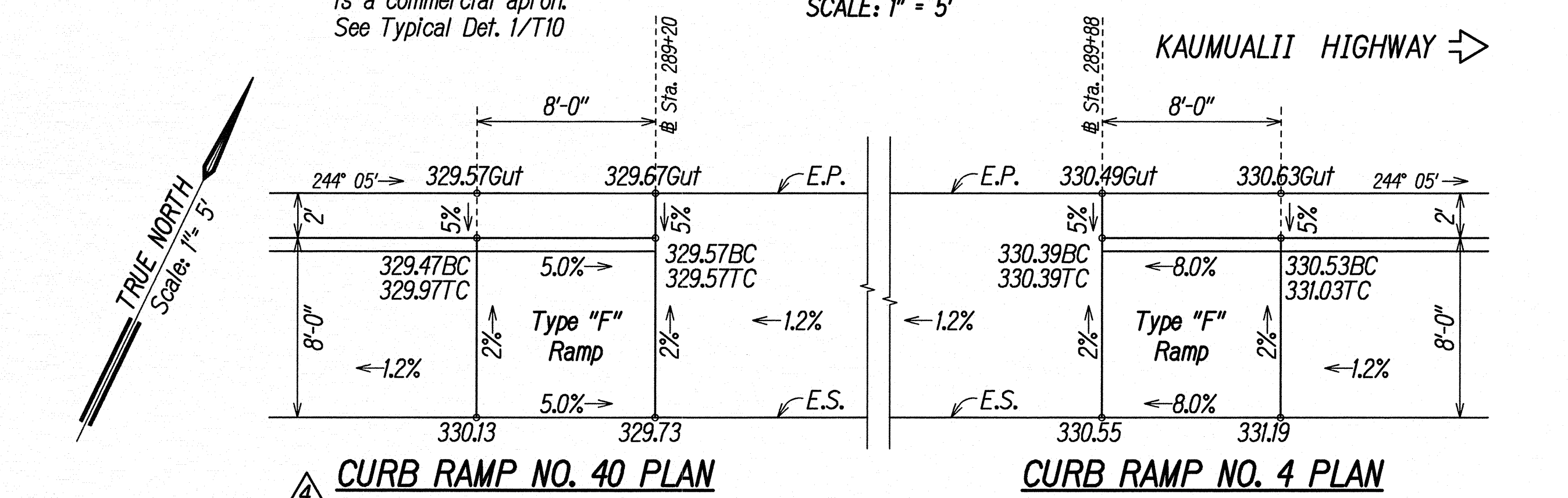
DRIVEWAY APRON NO. 3 PLAN
SCALE: 1" = 5'



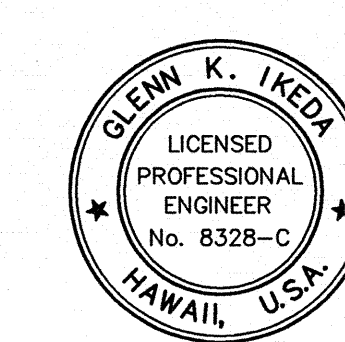
DRIVEWAY APRON NO. 2 PLAN
SCALE: 1" = 5'



DRIVEWAY APRON NO. 4 PLAN
SCALE: 1" = 5'



DRIVEWAY APRON NO. 5 PLAN
SCALE: 1" = 5'

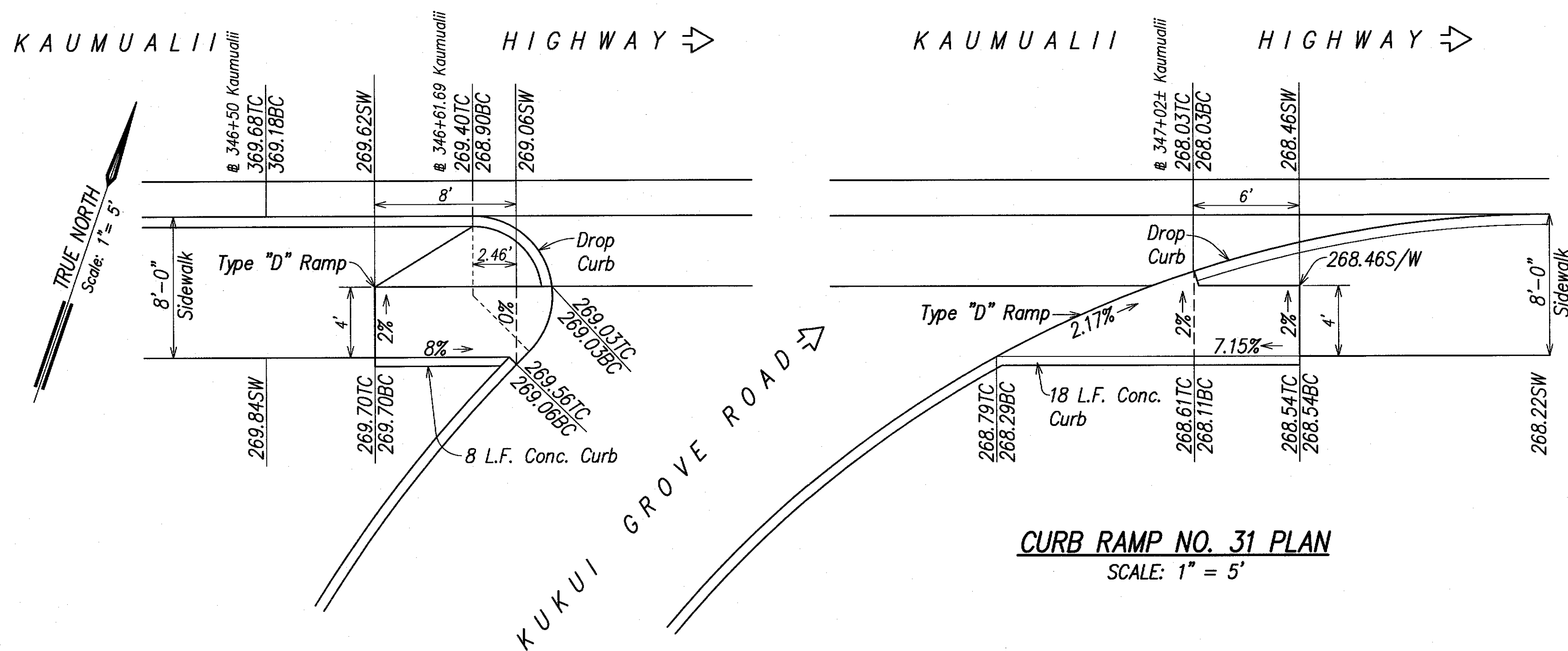


THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
Glenn K. Ikeda
DATE: JAN. 2010

2/01/10	4 Added Curb Ramp No. 40.
DATE	REVISION

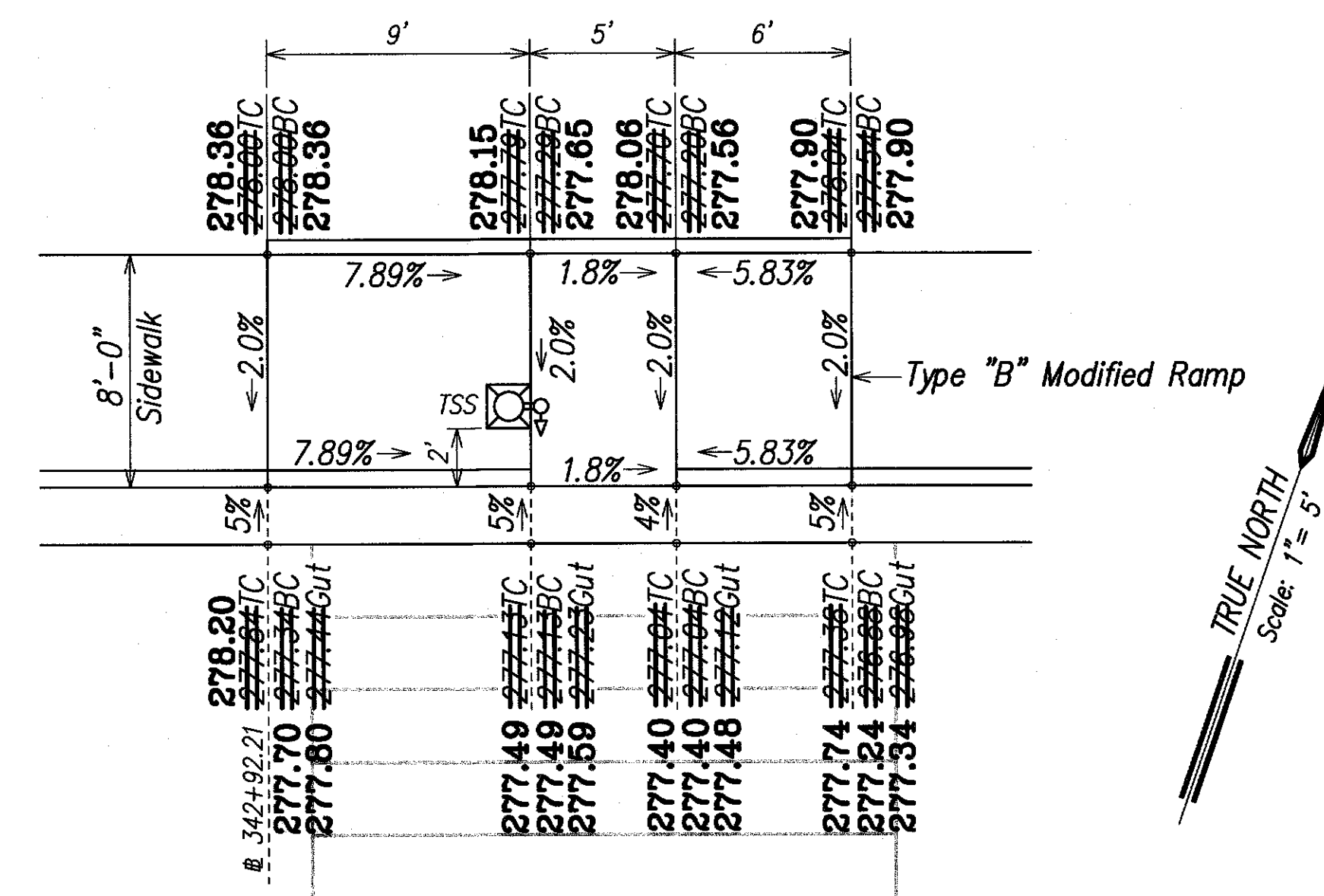
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION <u>CURB RAMP PLAN</u> <u>VARIOUS LOCATIONS</u> <u>KAUMUALII HIGHWAY WIDENING</u> <u>Vicinity of Anonui Street to Vicinity of Lihue Mill Bridge</u> <u>FEDERAL-AID PROJECT NO. NH-050-1(31)</u> Scale: 1" = 5'	Date: JAN. 2010
SHEET No. CR22 OF CR23 SHEETS	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-050-1(31)	2009	107	452

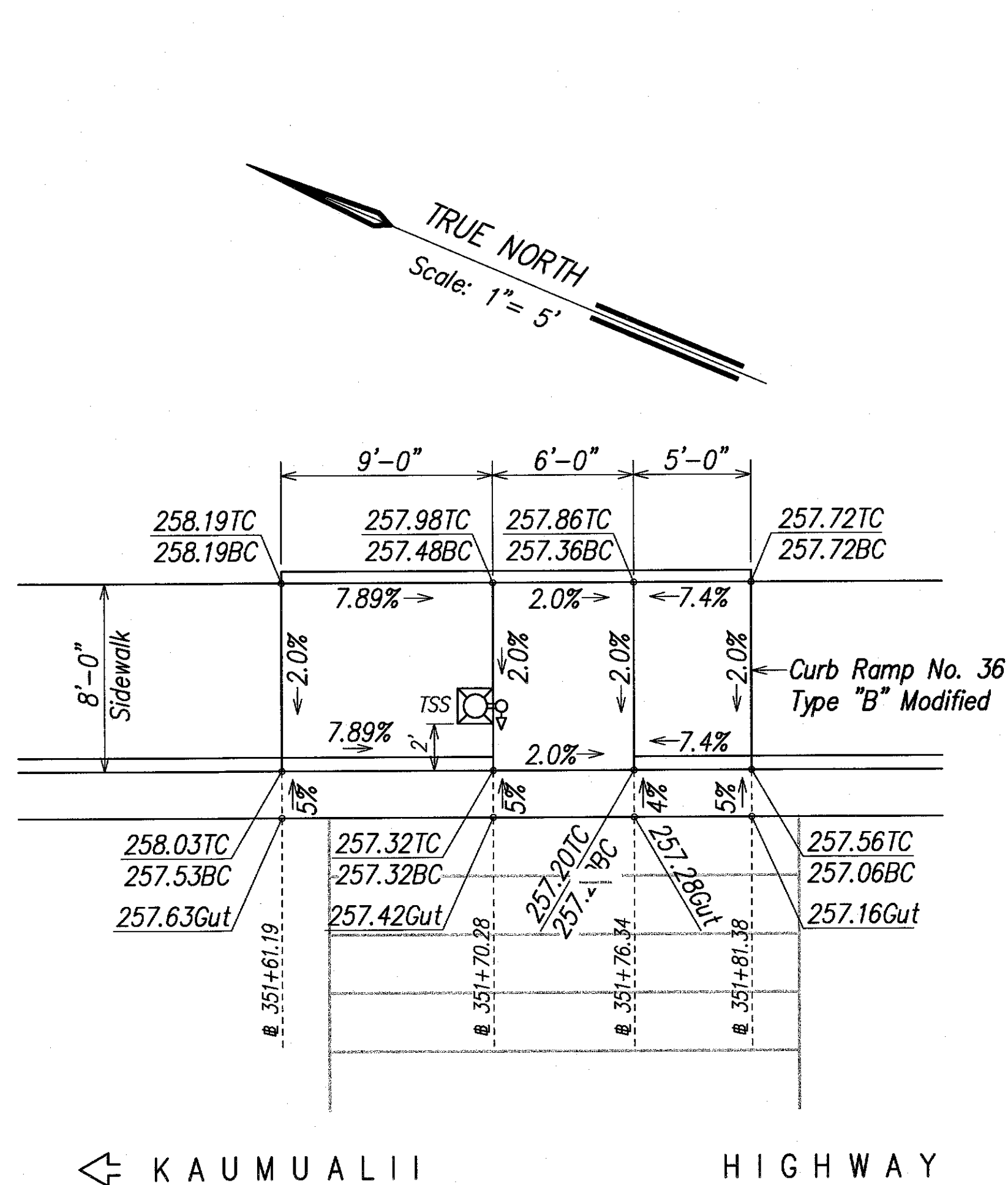


CURB RAMP NO. 30 PLAN
SCALE: 1" = 5'

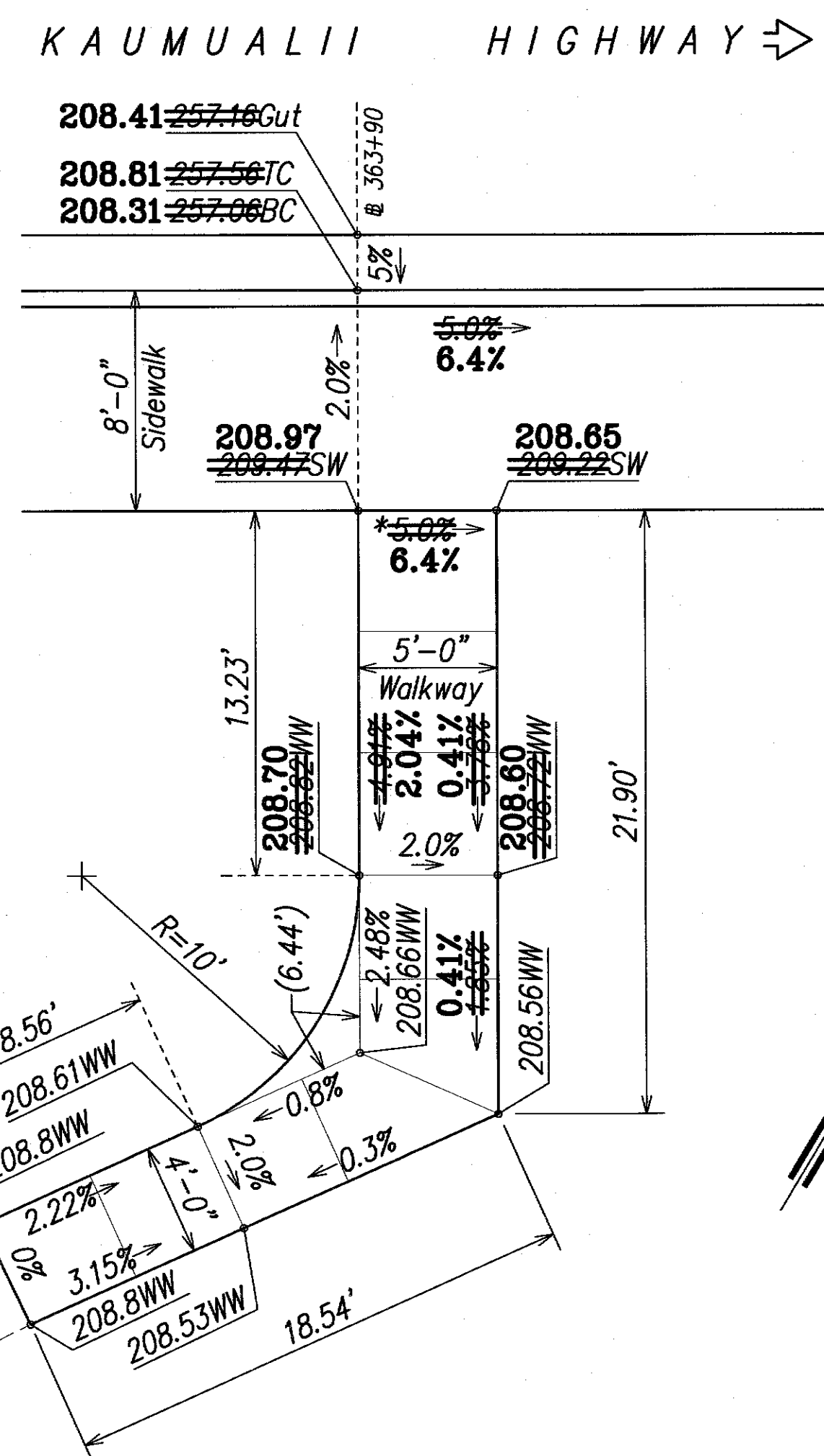
CURB RAMP NO. 31 PLAN
SCALE: 1" = 5'



CURB RAMP NO. 29 PLAN
SCALE: 1" = 5'



CURB RAMP NO. 36 PLAN
SCALE: 1" = 5'



WALKWAY CONNECTION PLAN
SCALE: 1" = 5'

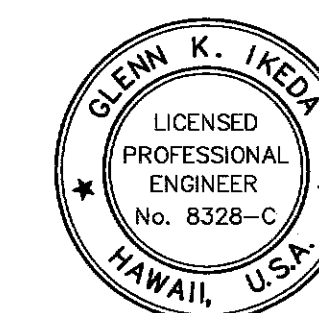
- Legend:**
- TC Top Curb Grade
 - BC Bottom Curb Grade
 - Gut Gutter Grade at E.P.
 - SW Back of Sidewalk Grade
 - WW Walkway Grade
 - TSS Traffic Signal Standard
 - <P> Pedestrian Push Button with Man & Arrow Sign
 - (*) Technically Infeasible

LEGEND FOR AS-BUILT POSTINGS

AAAA Squiggly line for as-built deletion

100.00 Double line for as-built deletion

Roadway Text for as-built posting



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PAE/EN, INC.
400 PARK ENGINEERING
LICENSE EXPIRES 4-30-16

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CURB RAMP PLAN
VARIOUS LOCATIONS

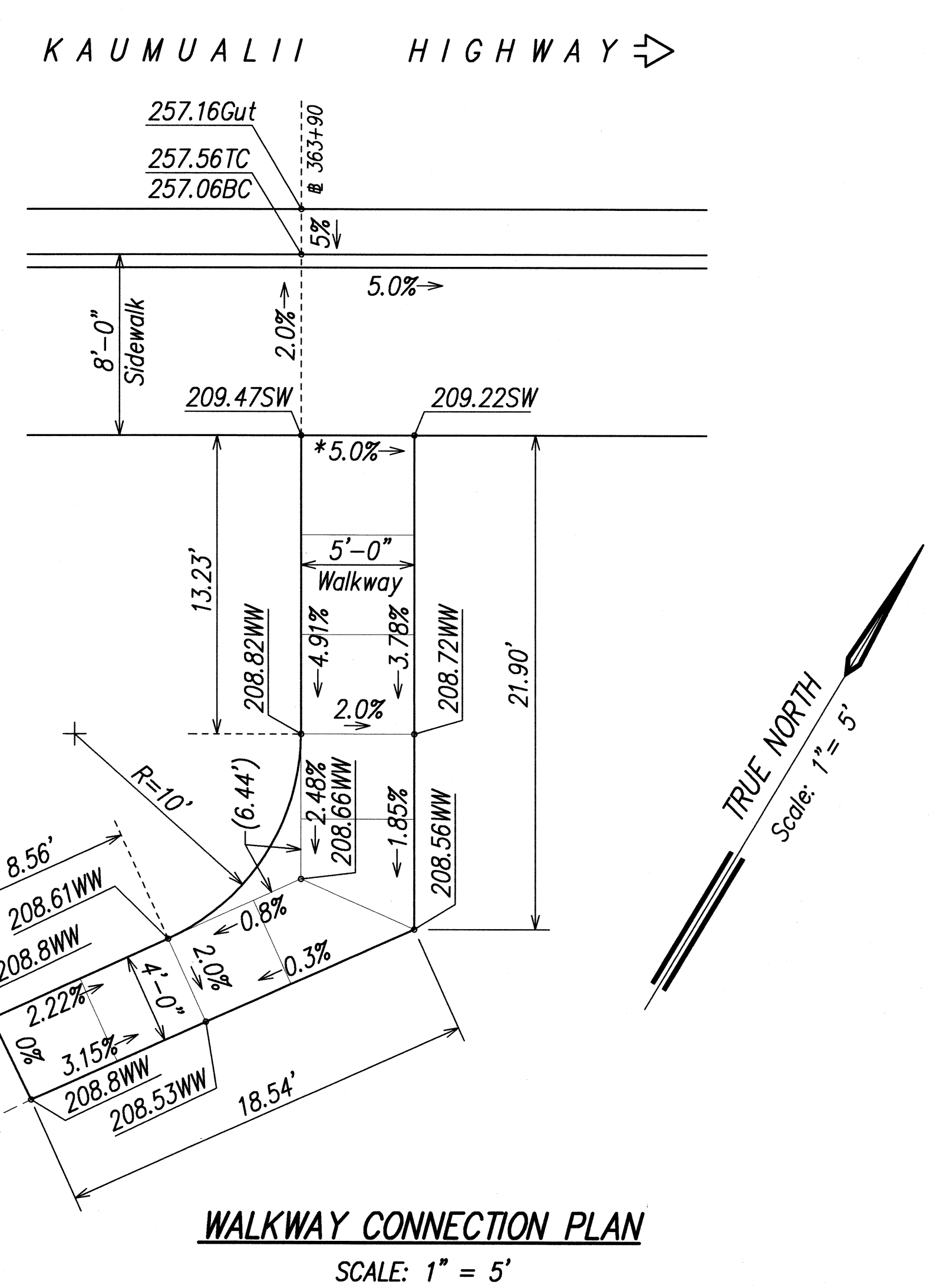
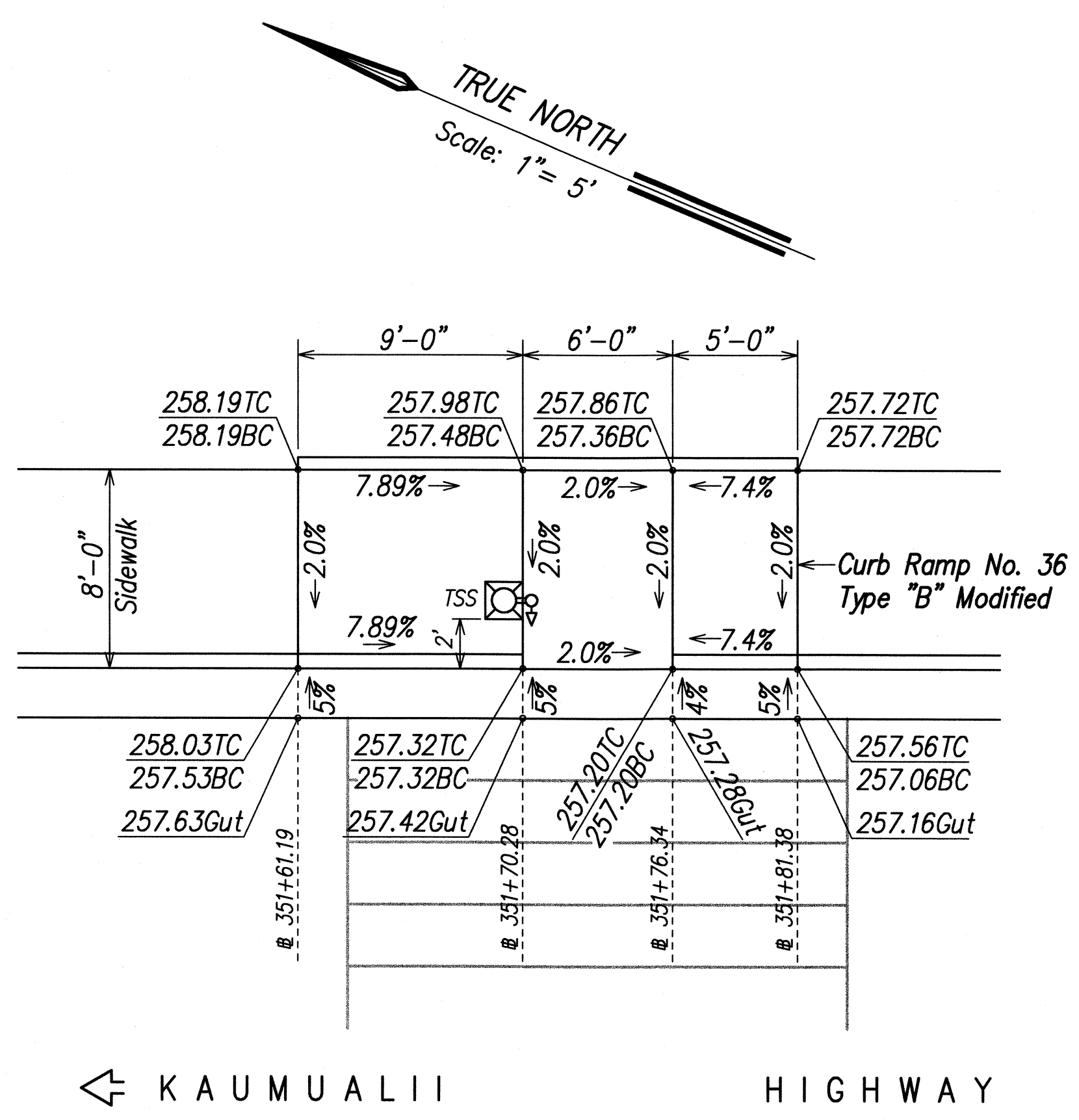
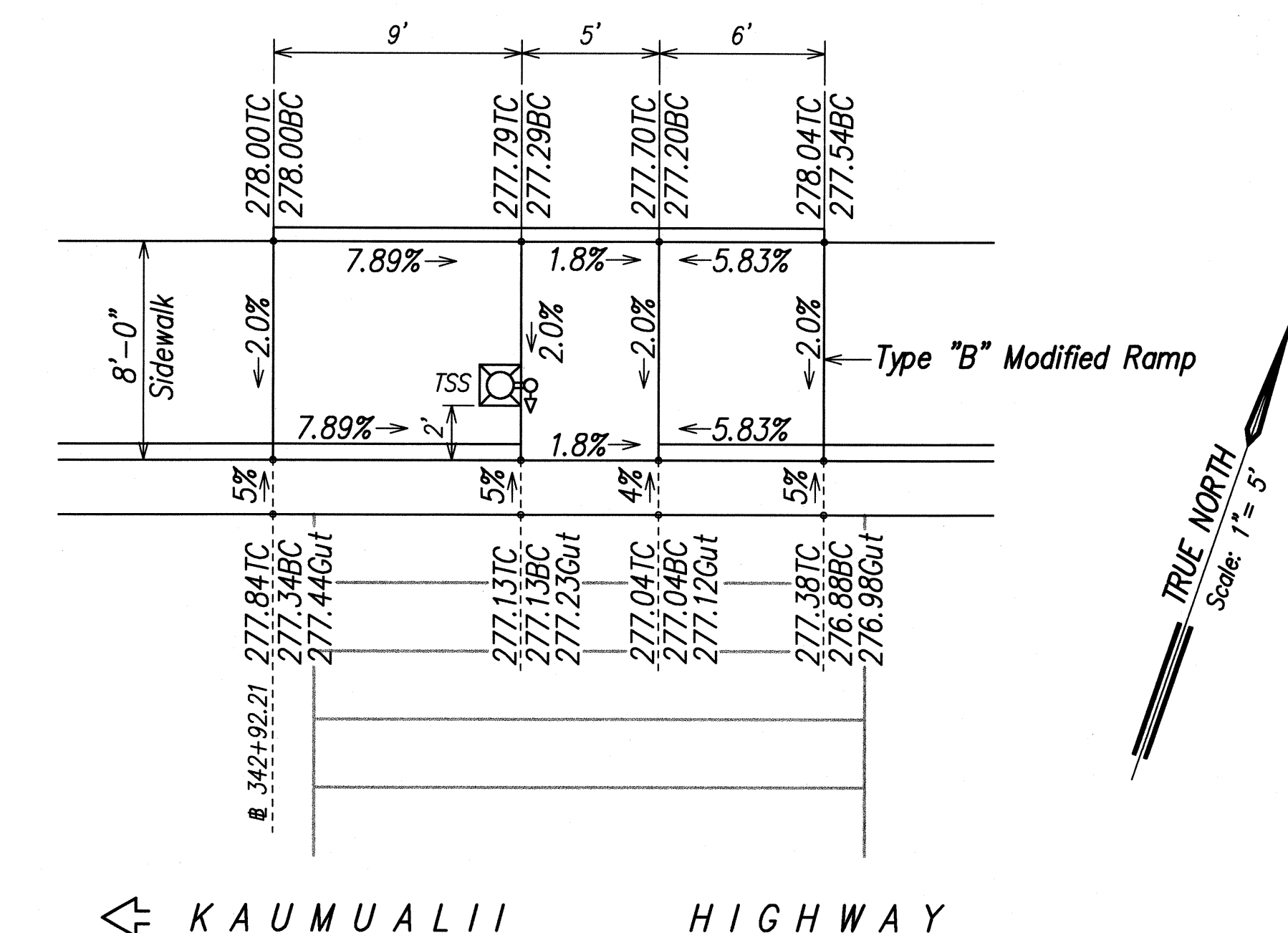
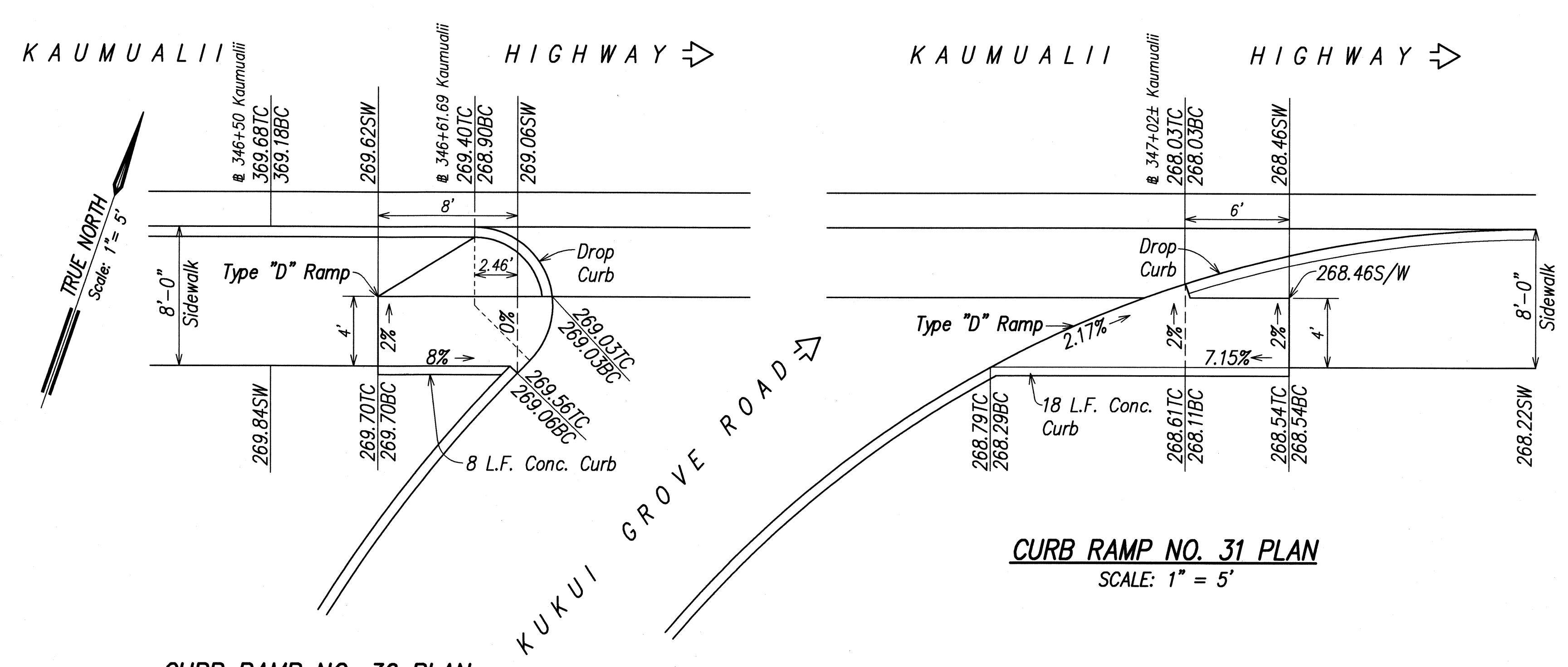
KAUMUALII HIGHWAY WIDENING
Vicinity of Anonui Street to Vicinity of Lihue Mill Bridge
FEDERAL-AID PROJECT NO. NH-050-1(31)

Scale: 1" = 5' Date: JAN. 2010

SHEET No. CR23 OF CR23 SHEETS

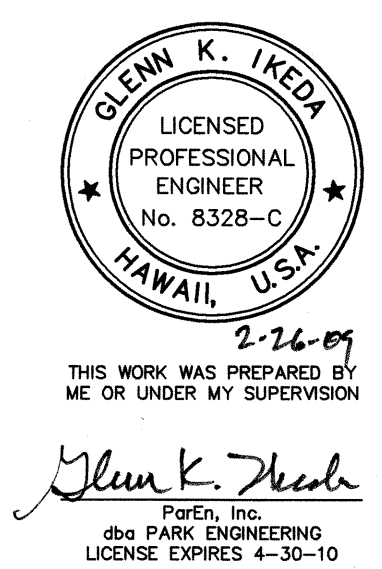
"AS-BUILT"

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-050-1(31)	2009	107	452



- Legend:**
- TC Top Curb Grade
 - BC Bottom Curb Grade
 - Gut Gutter Grade at E.P.
 - SW Back of Sidewalk Grade
 - WW Walkway Grade
 - TSS Traffic Signal Standard
 - ⊞ Pedestrian Push Button with Man & Arrow Sign
 - (*) Technically Infeasible

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

CURB RAMP PLAN
VARIOUS LOCATIONS

KAUMUALII HIGHWAY WIDENING
Vicinity of Anonui Street to Vicinity of Lihue Mill Bridge
FEDERAL-AID PROJECT NO. NH-050-1(31)

Scale: 1" = 5' Date: FEB. 2009

SHEET No. CR23 OF CR23 SHEETS