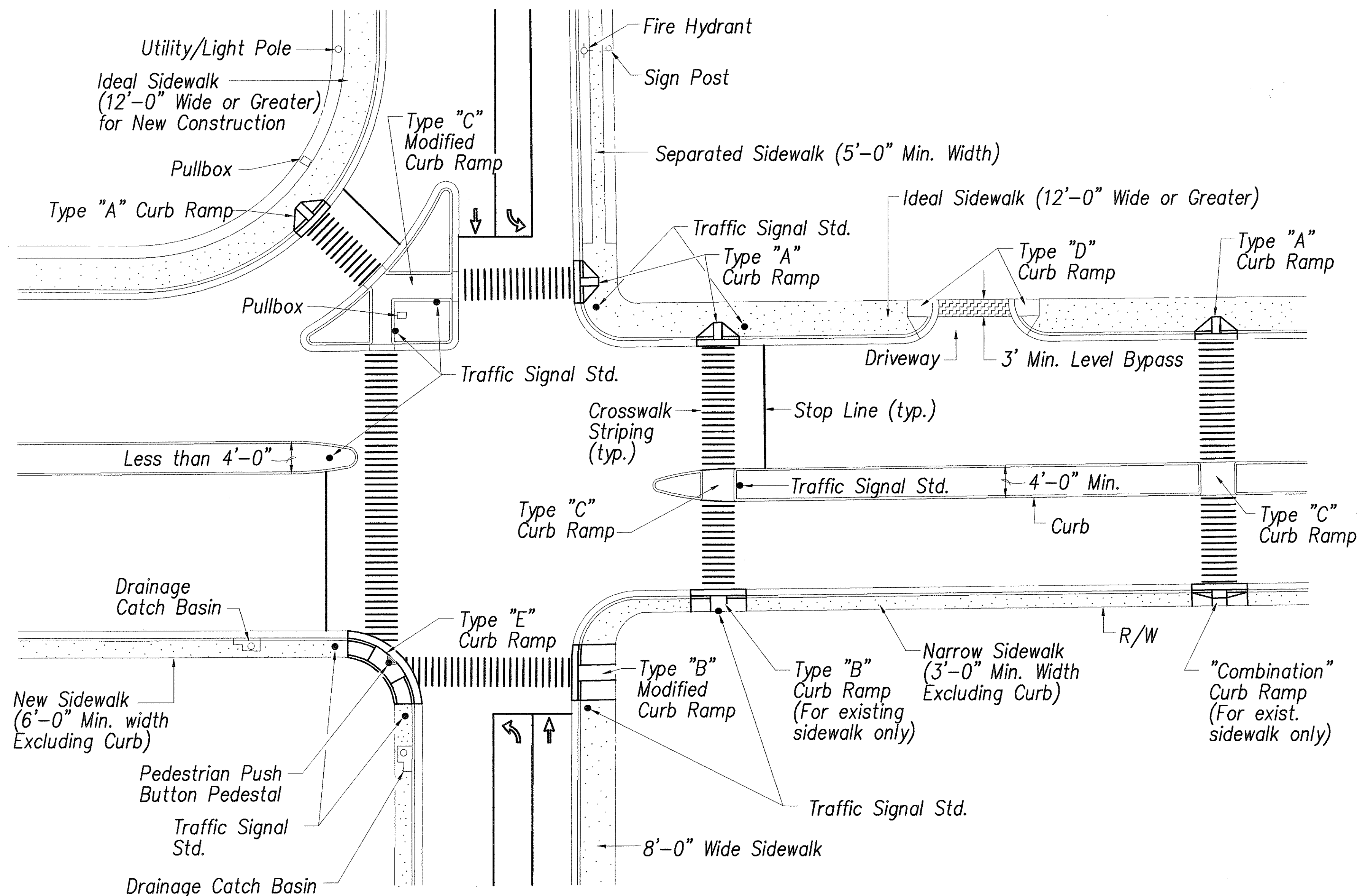
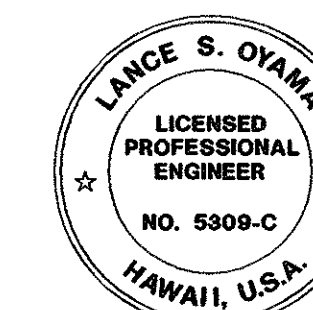


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CMAQ-0300(97)	2004	18	163



**TYPICAL CURB RAMPS**  
Not to scale



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*Lance S. Oyama*  
APRIL 30, 2006  
SIGNATURE DATE

"OBSERVATION OF CONSTRUCTION" IS DEFINED IN CHAPTER 16-115, HAWAII ADMINISTRATIVE RULES ENTITLED "PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS AND LANDSCAPE ARCHITECTS".

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**TYPICAL CURB RAMP LAYOUT**

*Pedestrian Facilities & ADA Compliance  
at Various Locations on Oahu, Unit 6  
Fed. Aid Proj. No. CMAQ-0300(97)*

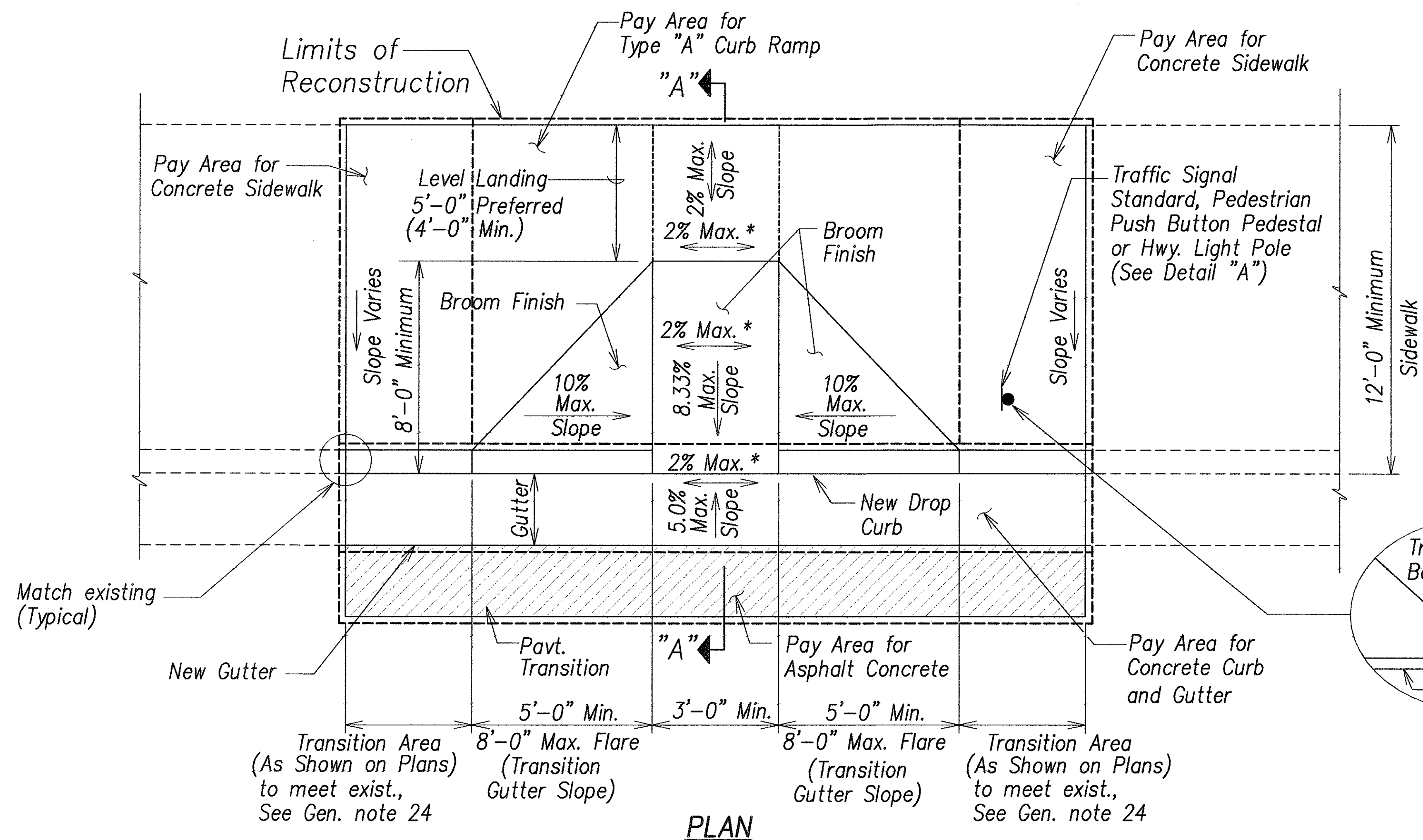
Scale: As Shown Date: JULY 19, 2004

SHEET No. C-17 OF 122 SHEETS

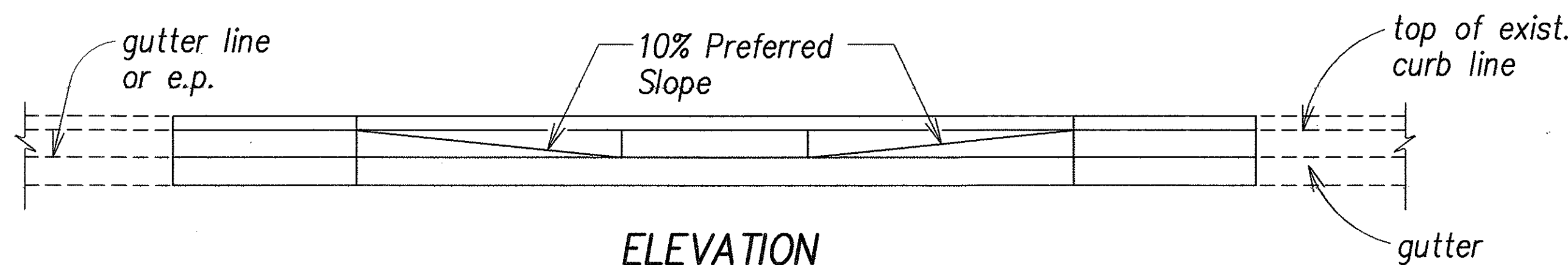
ORIGINAL PLAN	DATE
SURVEY PLATTED BY	
DRAWN BY	
TRACED BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
NOTE BOOK	
No.	

DATE REVISION

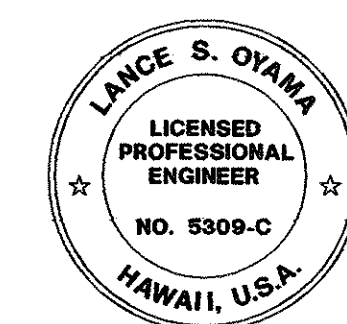
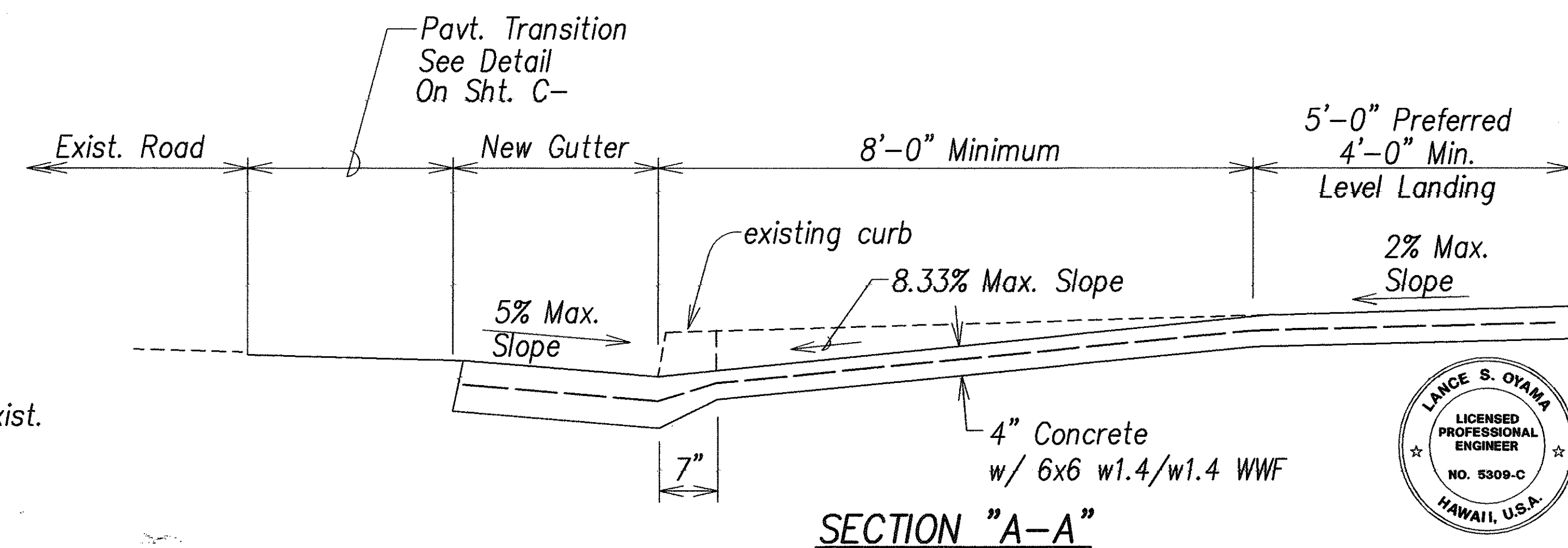
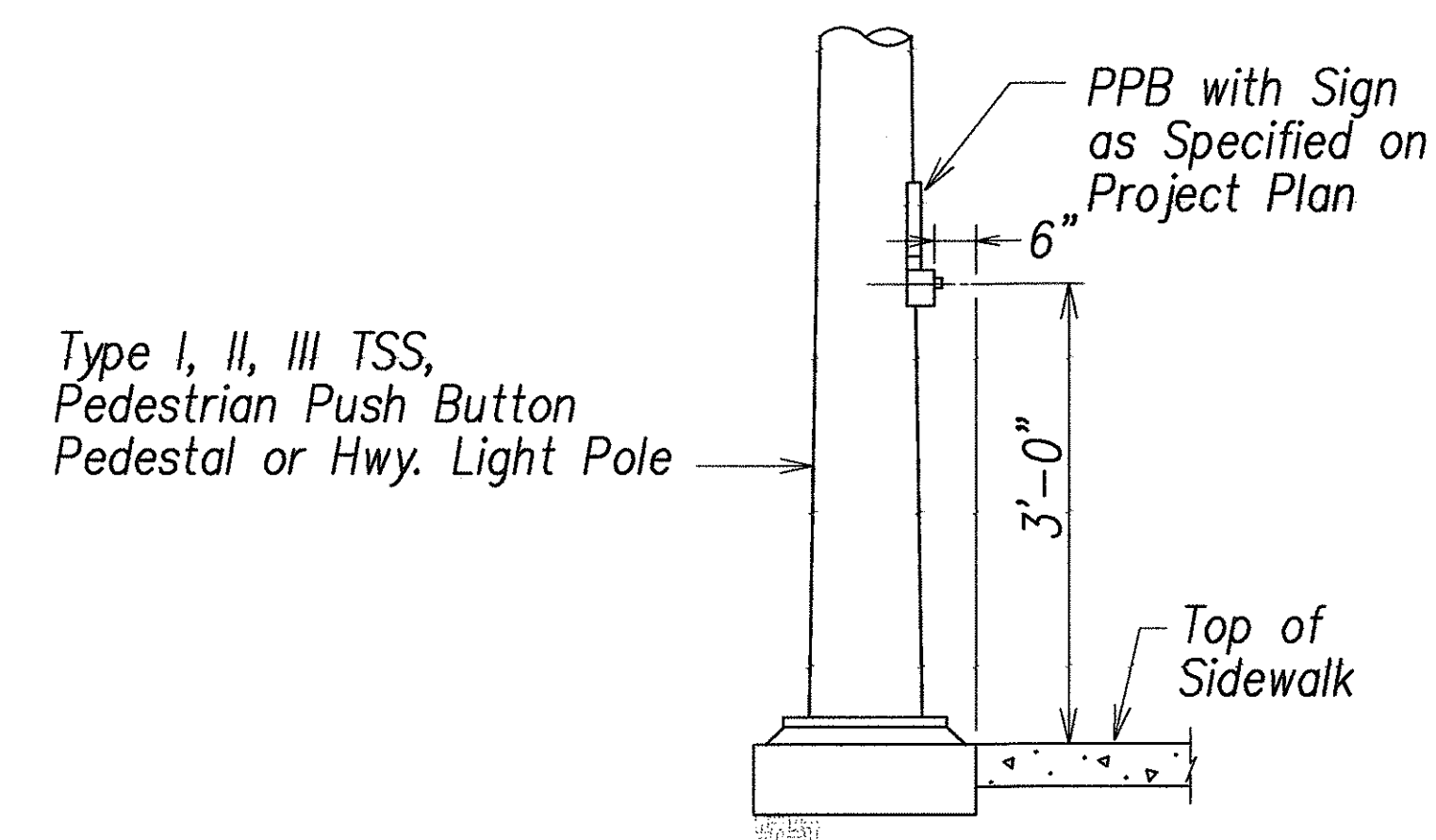
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CMAQ-0300(97)	2004	19	163



\* If roadway slope >2% conform to roadway slope and file Technical Infeasibility (TI) Statement.



**CURB RAMP - TYPE "A"**  
SIDEWALK WIDTH 12'-0" OR GREATER  
Not to scale



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*Lance S. Oyama*

SIGNATURE DATE

APRIL 30, 2006

"OBSERVATION OF CONSTRUCTION" IS DEFINED IN CHAPTER 16-115, HAWAII ADMINISTRATIVE RULES ENTITLED "PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS AND LANDSCAPE ARCHITECTS".

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**CURB RAMP DETAILS-1**

*Pedestrian Facilities & ADA Compliance at Various Locations on Oahu, Unit 6*  
Fed. Aid Proj. No. CMAQ-0300(97)

Scale: As Shown Date: JULY 19, 2004

**SHEET No. C-18 OF 122 SHEETS**

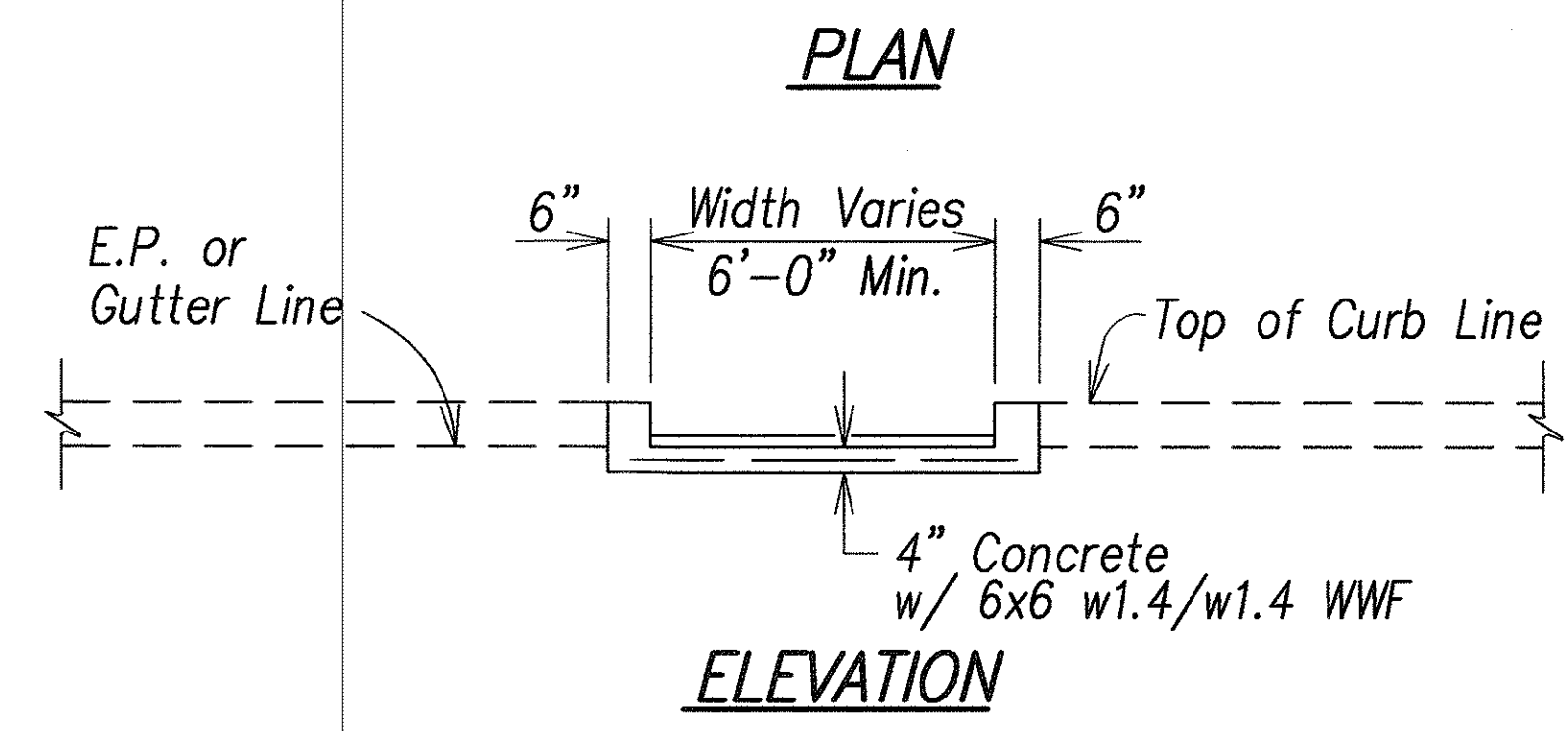
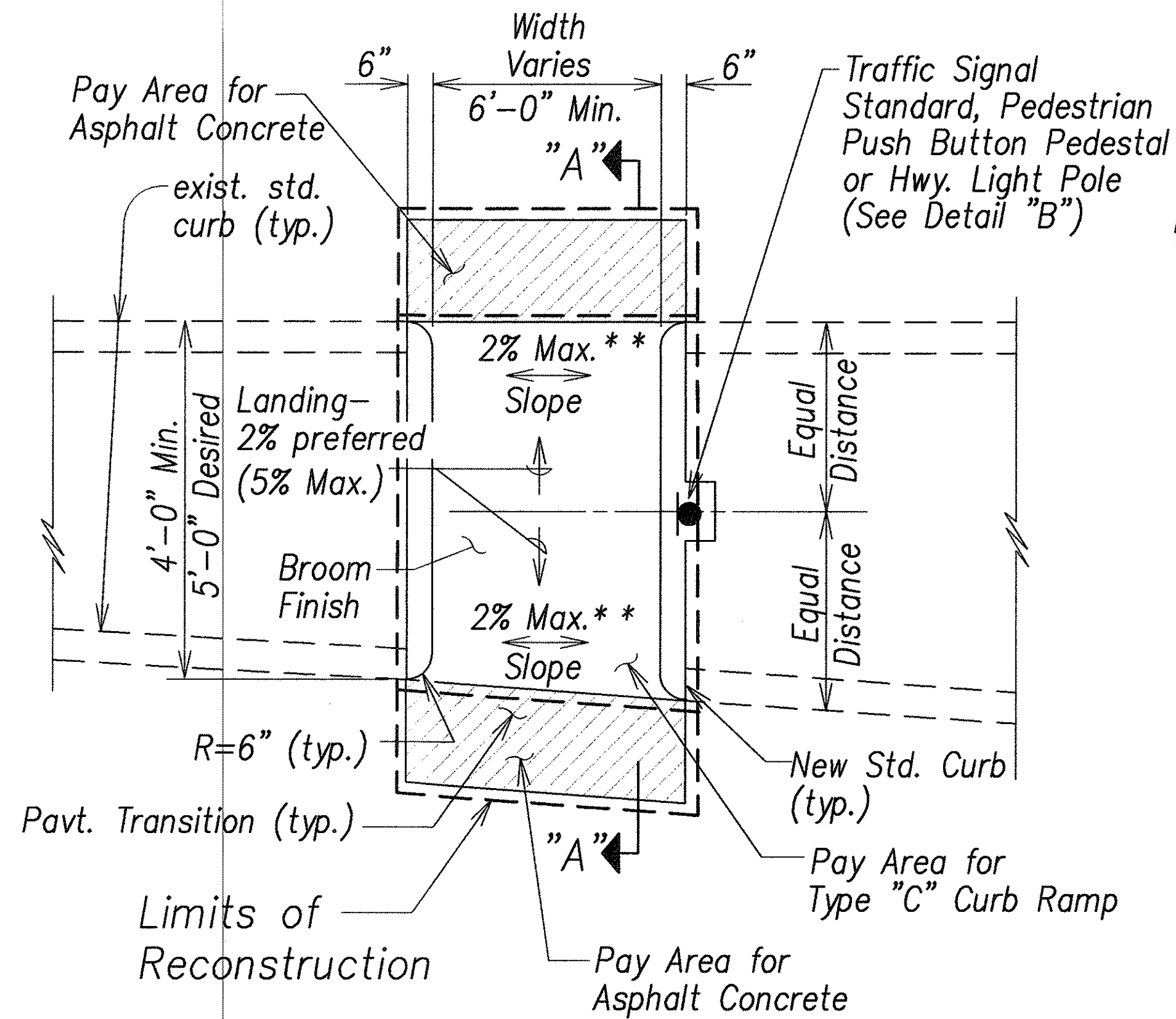
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
No.	DESIGNED BY	
	CHECKED BY	

DATE	REVISION



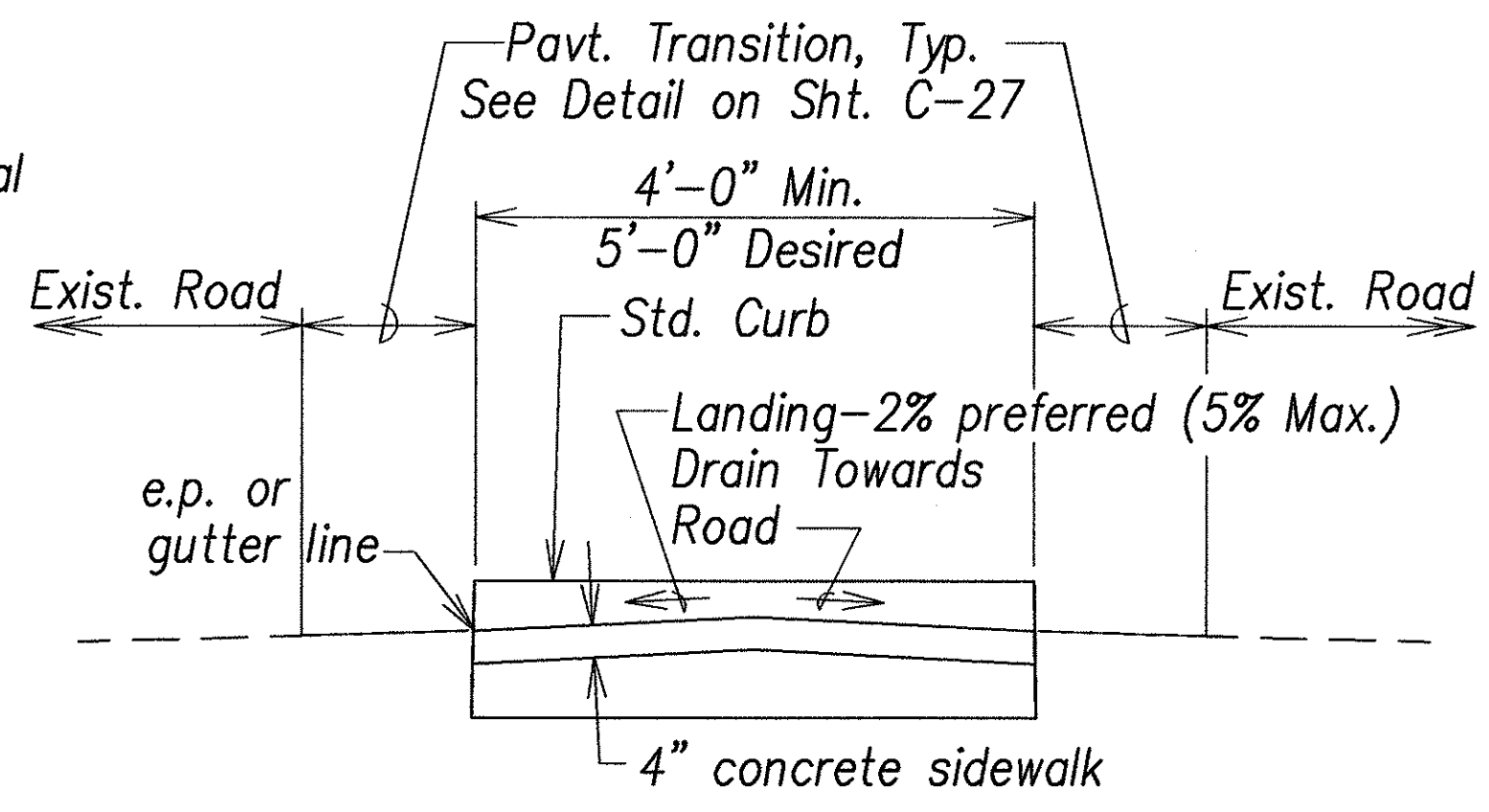


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CMAQ-0300(97)	2004	21	163

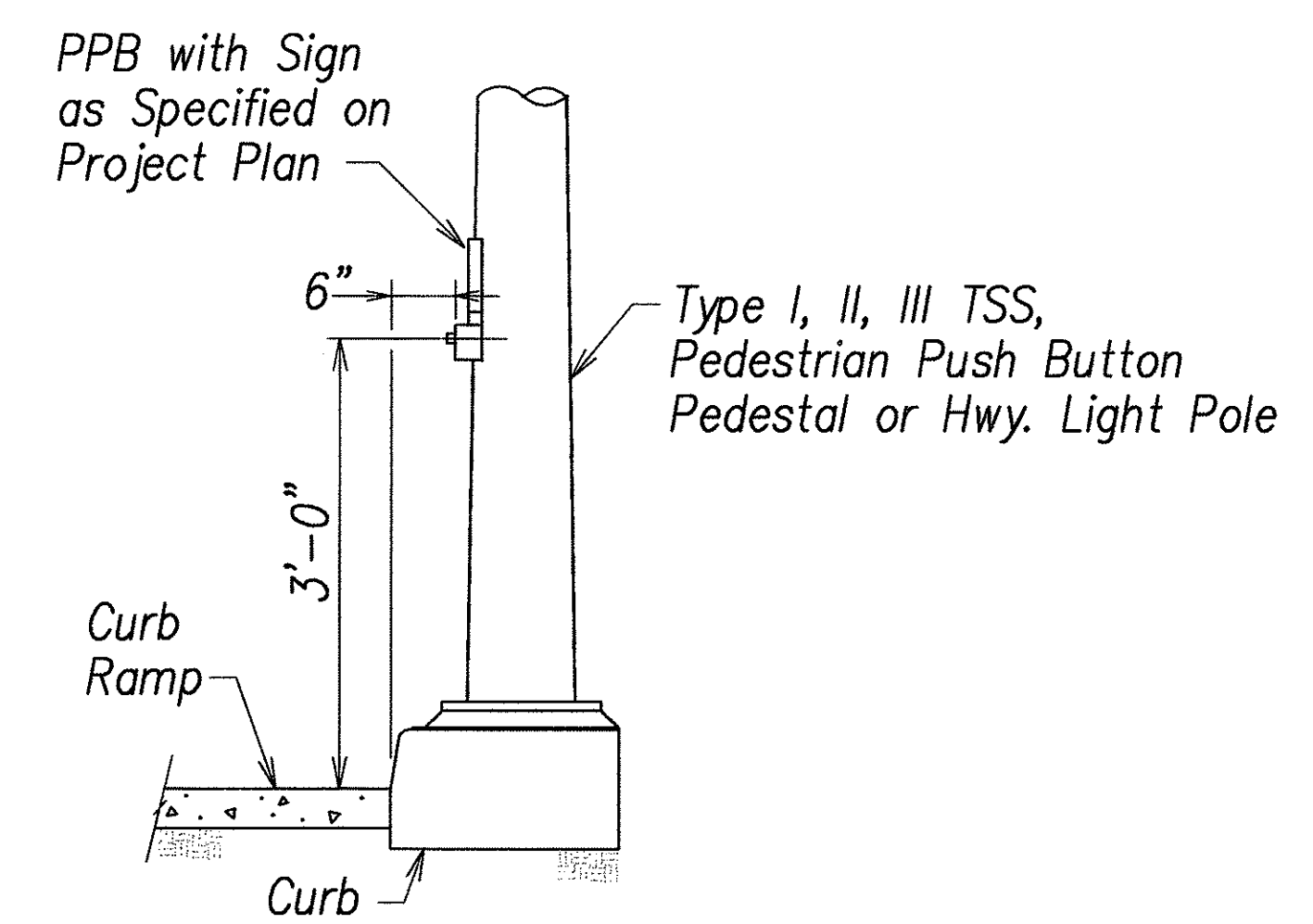


**CURB RAMP - TYPE "C"**  
Not to scale  
USE AT MEDIAN CROSSINGS, ISLANDS

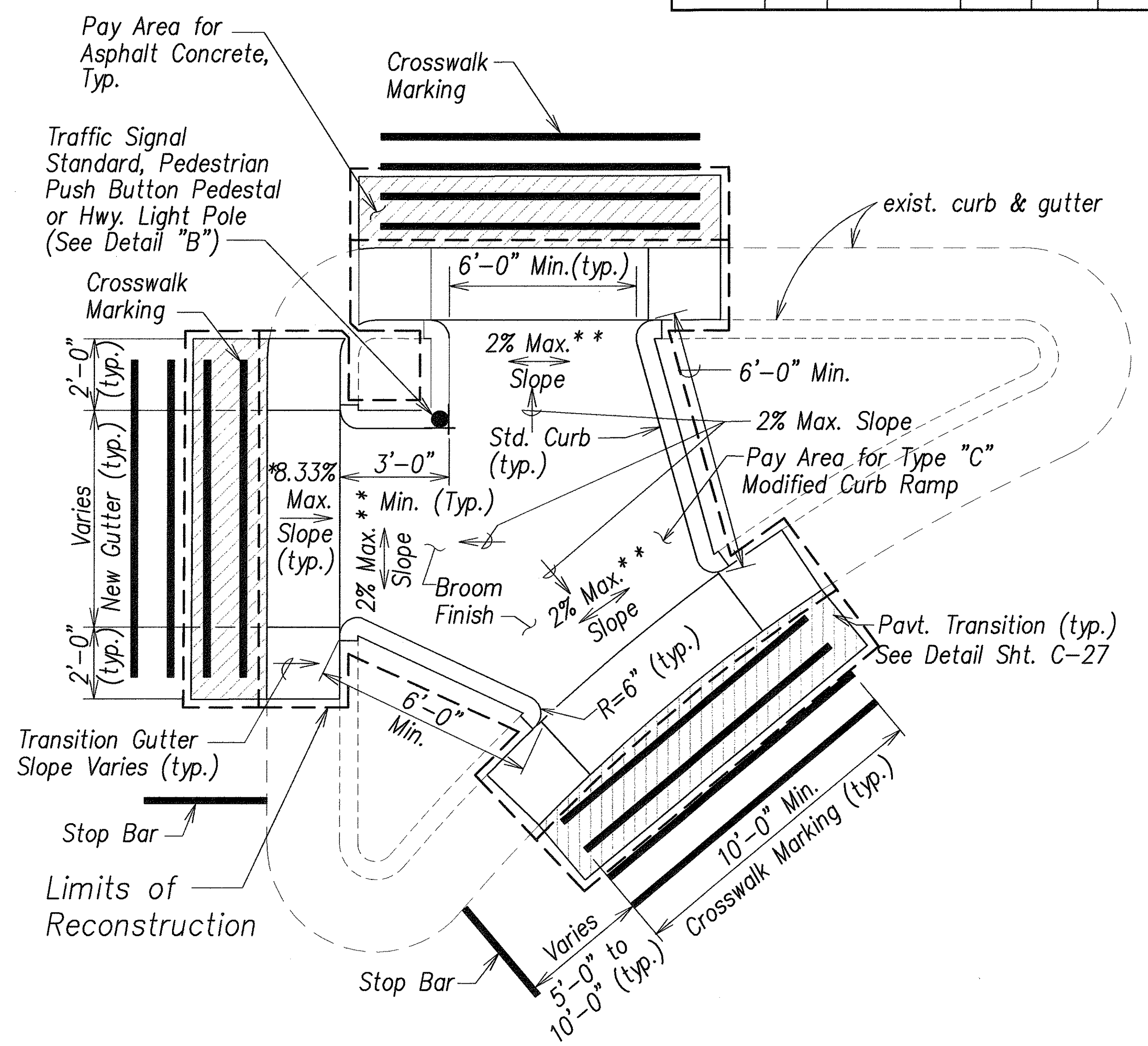
\* See Curb Ramp and Sidewalk Note No. 9  
\*\* If roadway slope >2% conform to roadway slope and file a Technical Infeasibility (TI) Statement



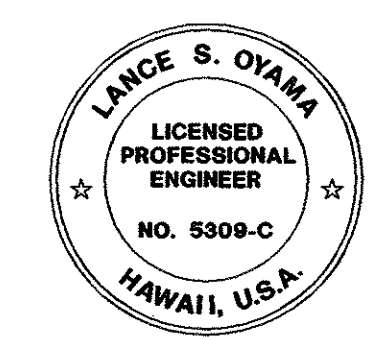
**SECTION "A-A"**



**DETAIL "B"**



**CURB RAMP - TYPE "C" MODIFIED**  
Not to scale



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DATE: APRIL 30, 2006  
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STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

CURB RAMP DETAILS - 3

Pedestrian Facilities & ADA Compliance at Various Locations on Oahu, Unit 6

Fed. Aid Proj. No. CMAQ-0300(97)

Scale: As Shown Date: JULY 19, 2004

SHEET No. C-20 OF 122 SHEETS

ORIGINAL PLAN	DATE
DESIGNED BY	DATE
CHECKED BY	DATE
NOTED BY	DATE
NO.	

DATE	REVISION





Path: L:\WOA\6623-04\_Curb Ramps\      Filename: C-022      Plot date: Aug 20, 2004-09:07:00am      CAD User: mkamihara.      Xref Filename:      Z-BORD      AUTODATE

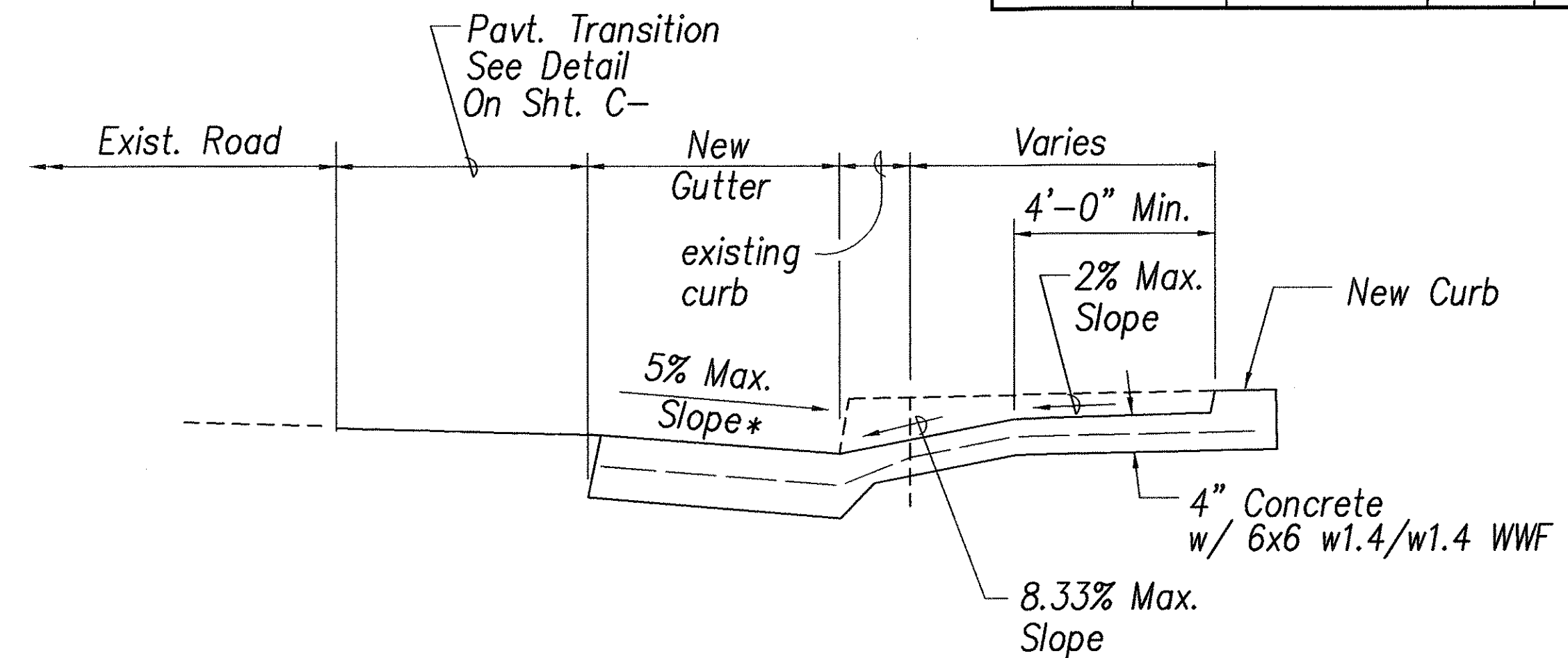


Diagram illustrating the installation of a Pedestrian Push Button (PPB) with Sign as Specified on Project Plan. The diagram shows a vertical pole (Type I, II, III TSS, Pedestrian Push Button Pedestal or Hwy. Light Pole) with a sign attached. The sign is 6" wide. The pole is 3'-0" high. The pole is located on a sidewalk next to a curb and a curb ramp.

PLAN

e.p. or gutter line

gutter

8.33% Max. Slope (typ.)

Curb as required by exist. conditions, See Back Curb Det. on Sht. C-25

top of existing curb line

4" Concrete

- ### CURB RAMP – COMBINATION

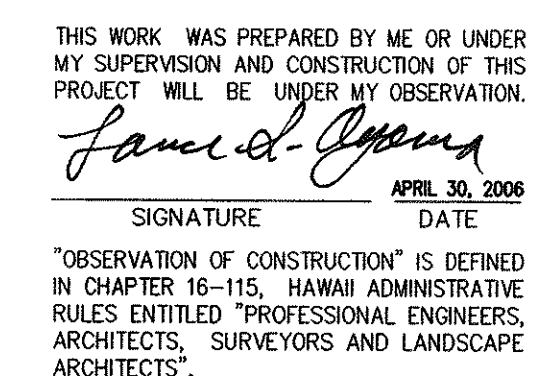
DATE	REVISION
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**SHEET No. C-22 OF 122 SHEETS**

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



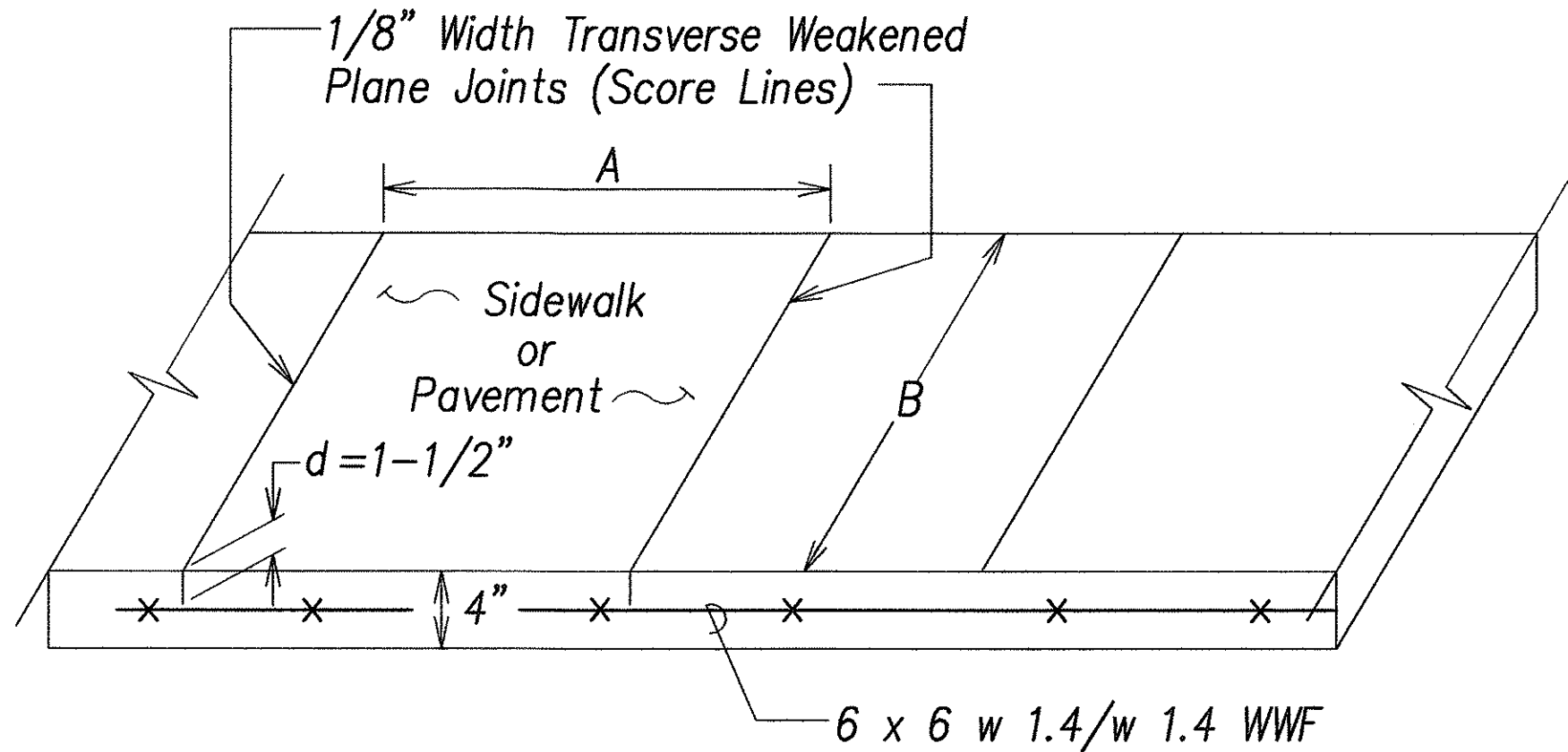
Path: L:\WOA\6623-04 Curb Ramps\ Filename: C-023 Plot date: Aug 20, 2004-09:07:26am CAD User: mkamihara. Xref Filename: | Z-BORD | AUTODATE |



<b>DATE</b>	<b>REVISION</b>
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ORIGINAL PLAN	SURVEY PLOTTED BY _____	DATE _____
NOTE BOOK	DRAWN BY _____	" _____
	TRACED BY _____	" _____
	DESIGNED BY _____	" _____
	QUANTITIES BY _____	" _____
No. _____	CHECKED BY _____	" _____

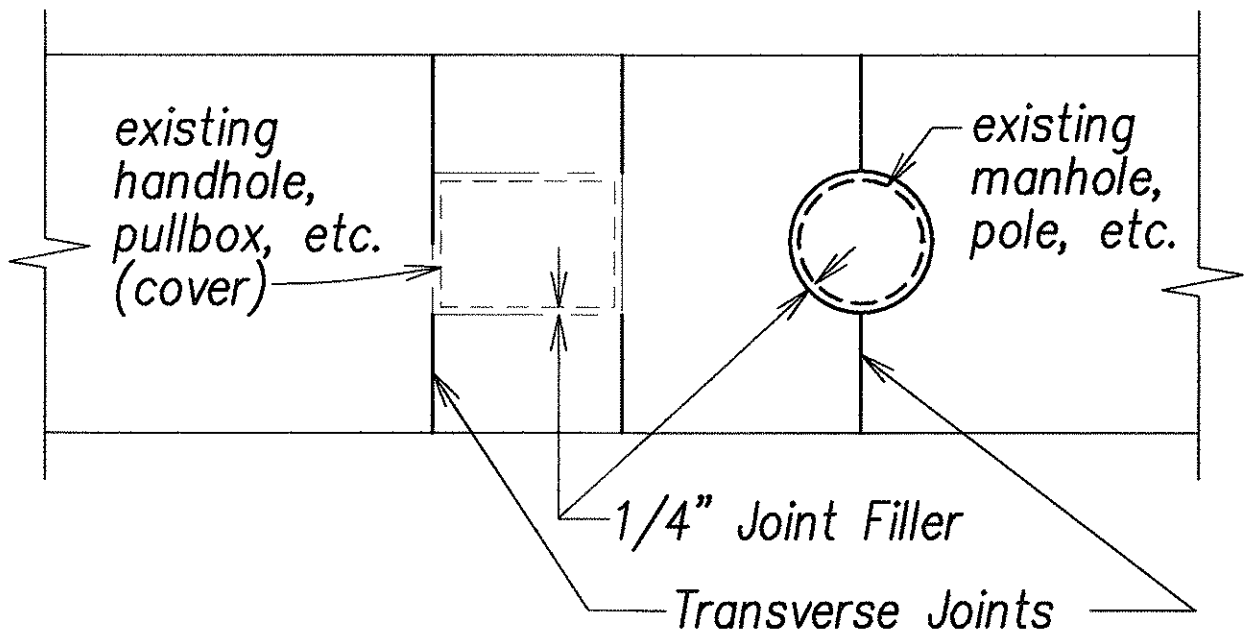
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CMAQ-0300(97)	2004	25	163



Note: A = 6' if B ≤ 8'  
If B > 8', Add Longitudinal Joint

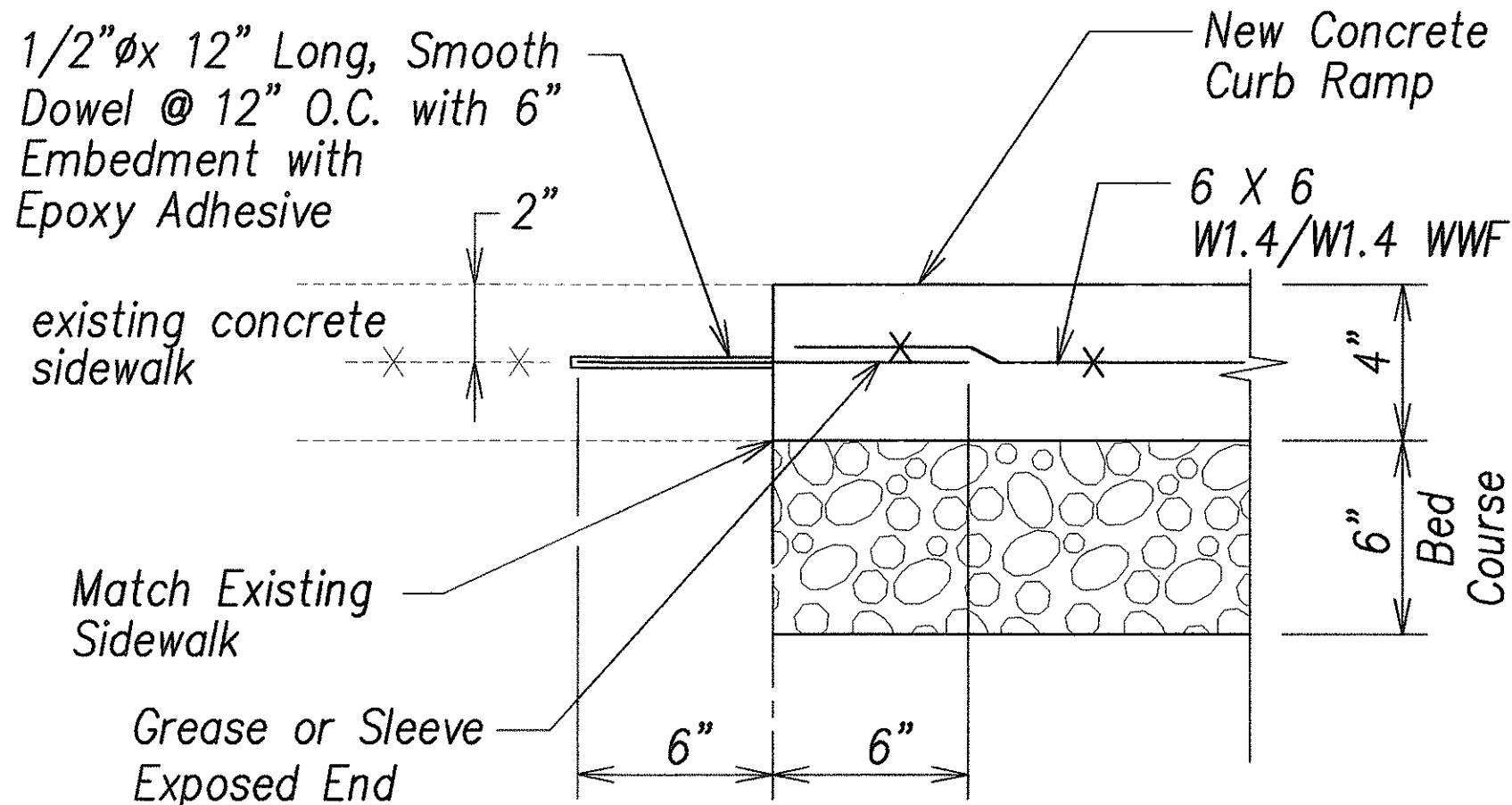
#### SIDEWALK SCORE LINE DETAIL

Not to scale



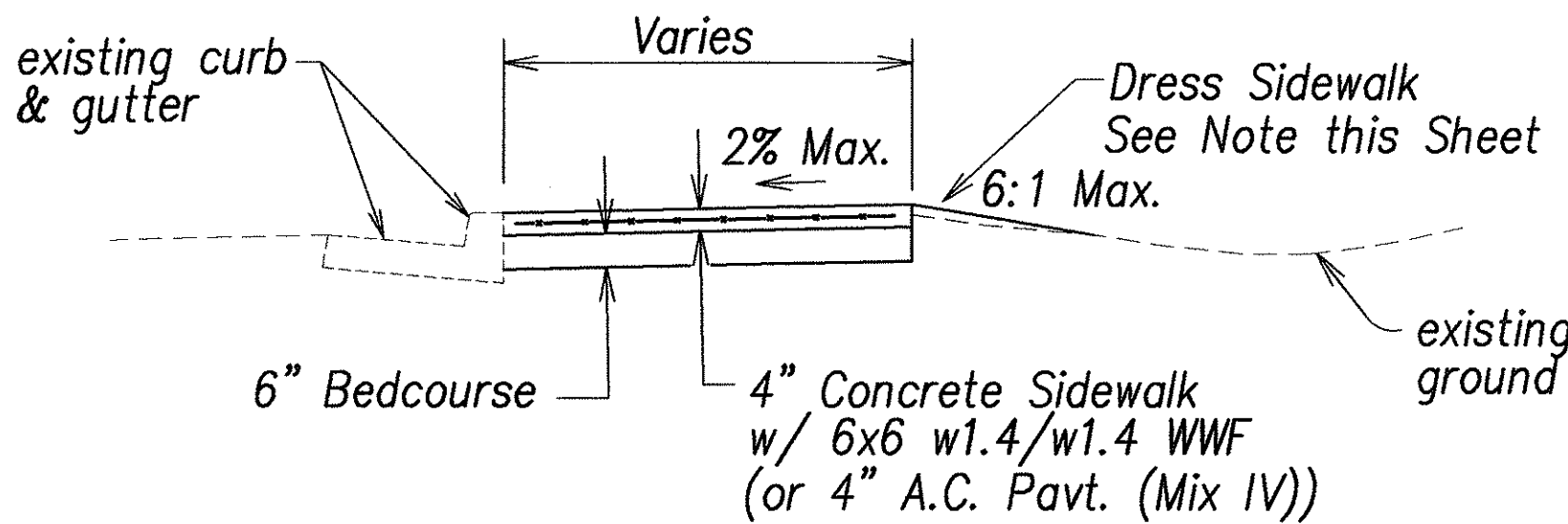
#### SIDEWALK ISOLATION JOINT DETAIL

Not to scale



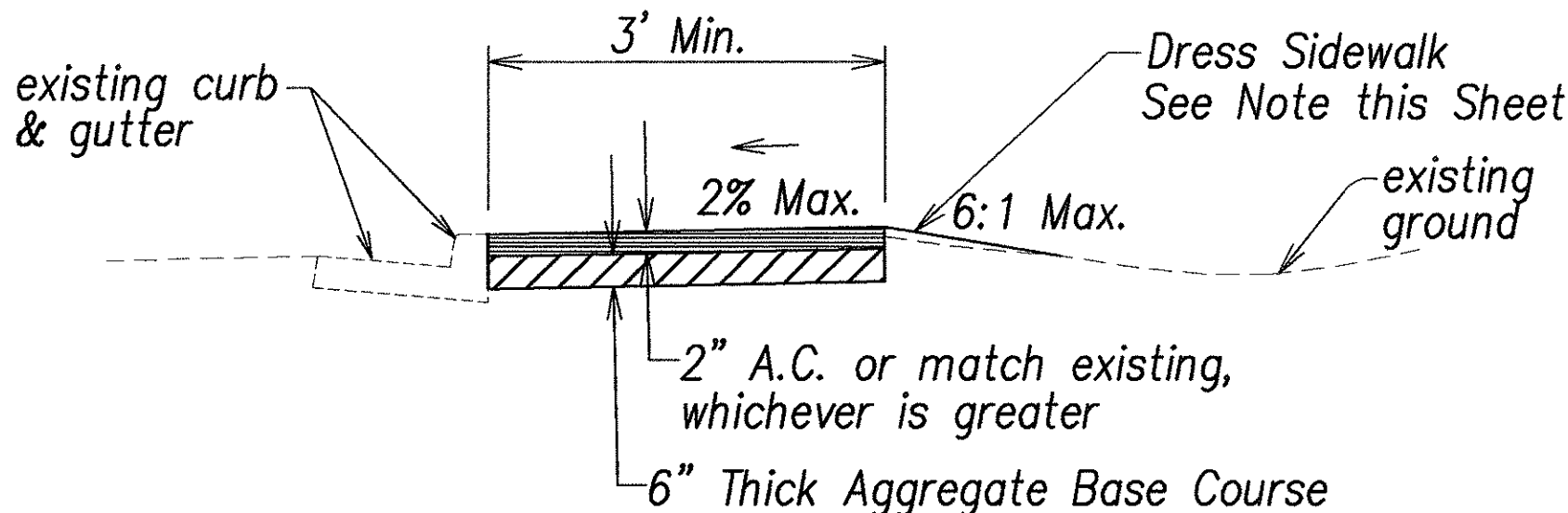
#### TYPICAL CONSTRUCTION JOINT AT EXISTING SIDEWALK

Not to scale



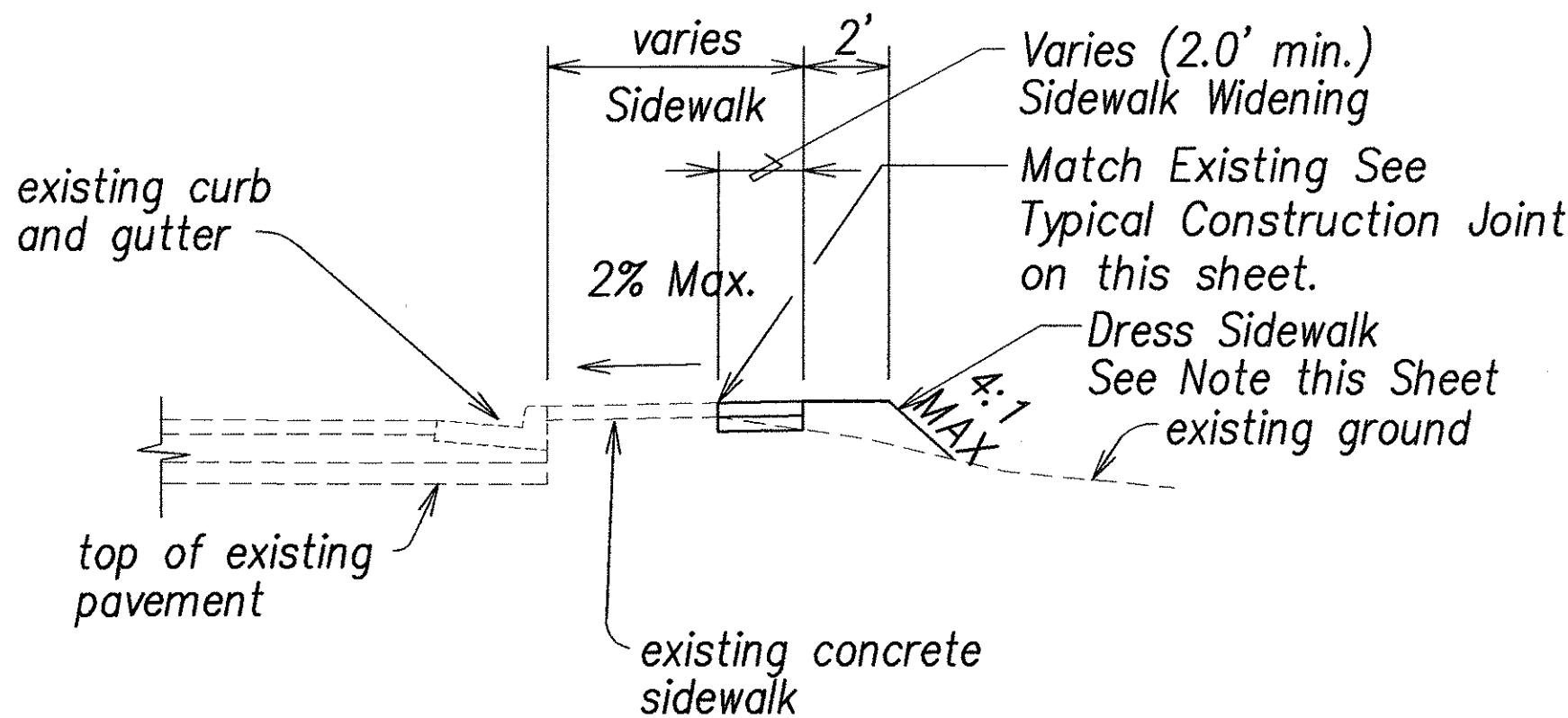
#### SIDEWALK DETAIL

Not to scale



#### A.C. SIDEWALK DETAIL

Not to scale

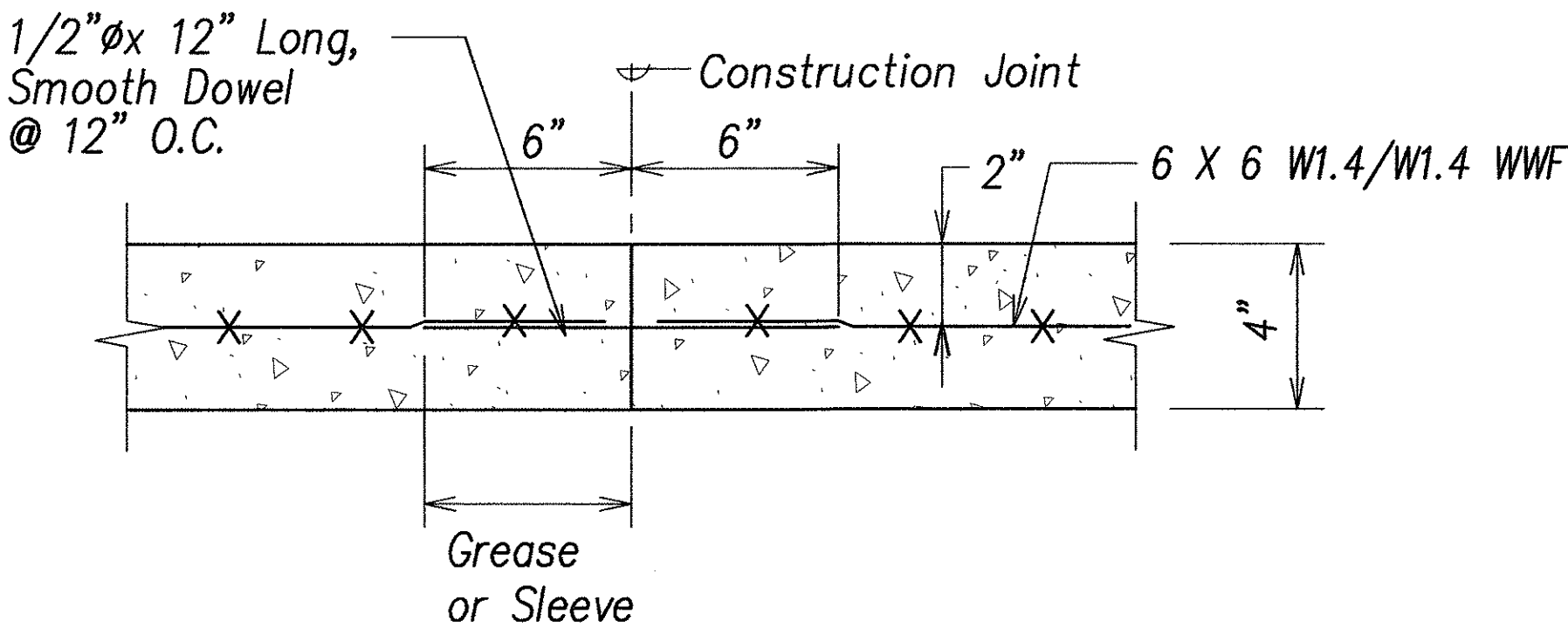


#### SIDEWALK WIDENING SECTION

Not to scale

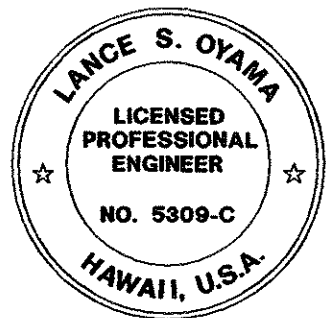
#### NOTES:

- Dressing of sidewalk shall consist of clearing, grubbing, grading, reshaping and compacting the area adjacent to the improvement with suitable material as shown on the plans and/or as directed by the Engineer. If existing ground is asphalt or concrete surface, dress sidewalk with A.C. pavement, Mix No. IV. This work shall be considered incidental to the new sidewalk.
- Transverse and Longitudinal Weakened Plane Joints for sidewalk shall be considered incidental to the New Sidewalk.
- Installation of dowels and tie bars including drilling, and epoxy grout shall be incidental to Sidewalk.



#### TRANSVERSE CONSTRUCTION JOINT DETAIL

Not to scale



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*Lance S. Oyama*  
 SIGNATURE DATE  
 APRIL 30, 2006  
 "OBSERVATION OF CONSTRUCTION" IS DEFINED IN CHAPTER 16-115, HAWAII ADMINISTRATIVE RULES ENTITLED "PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS AND LANDSCAPE ARCHITECTS".

STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION

#### SIDEWALK DETAILS

*Pedestrian Facilities & ADA Compliance at Various Locations on Oahu, Unit 6*  
 Fed. Aid Proj. No. CMAQ-0300(97)

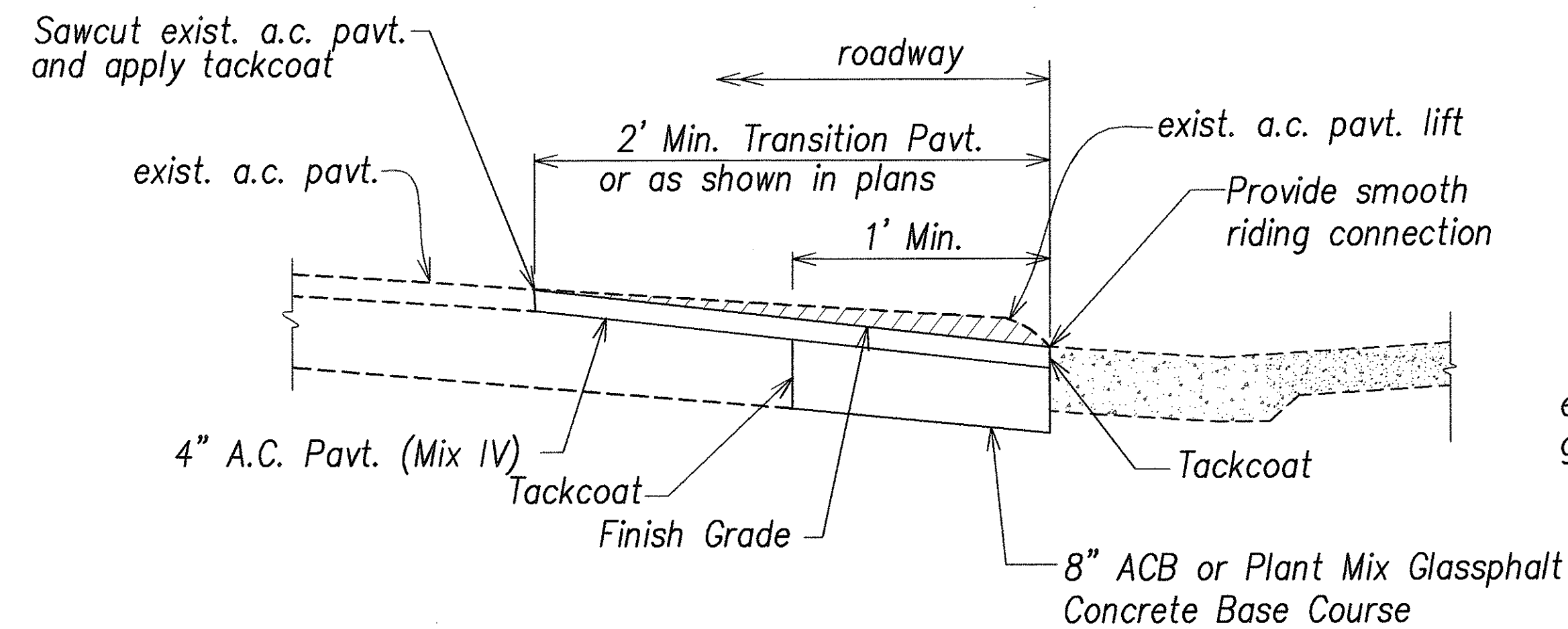
Scale: As Shown Date: JULY 19, 2004

SHEET No. C-24 OF 122 SHEETS

DATE	REVISION

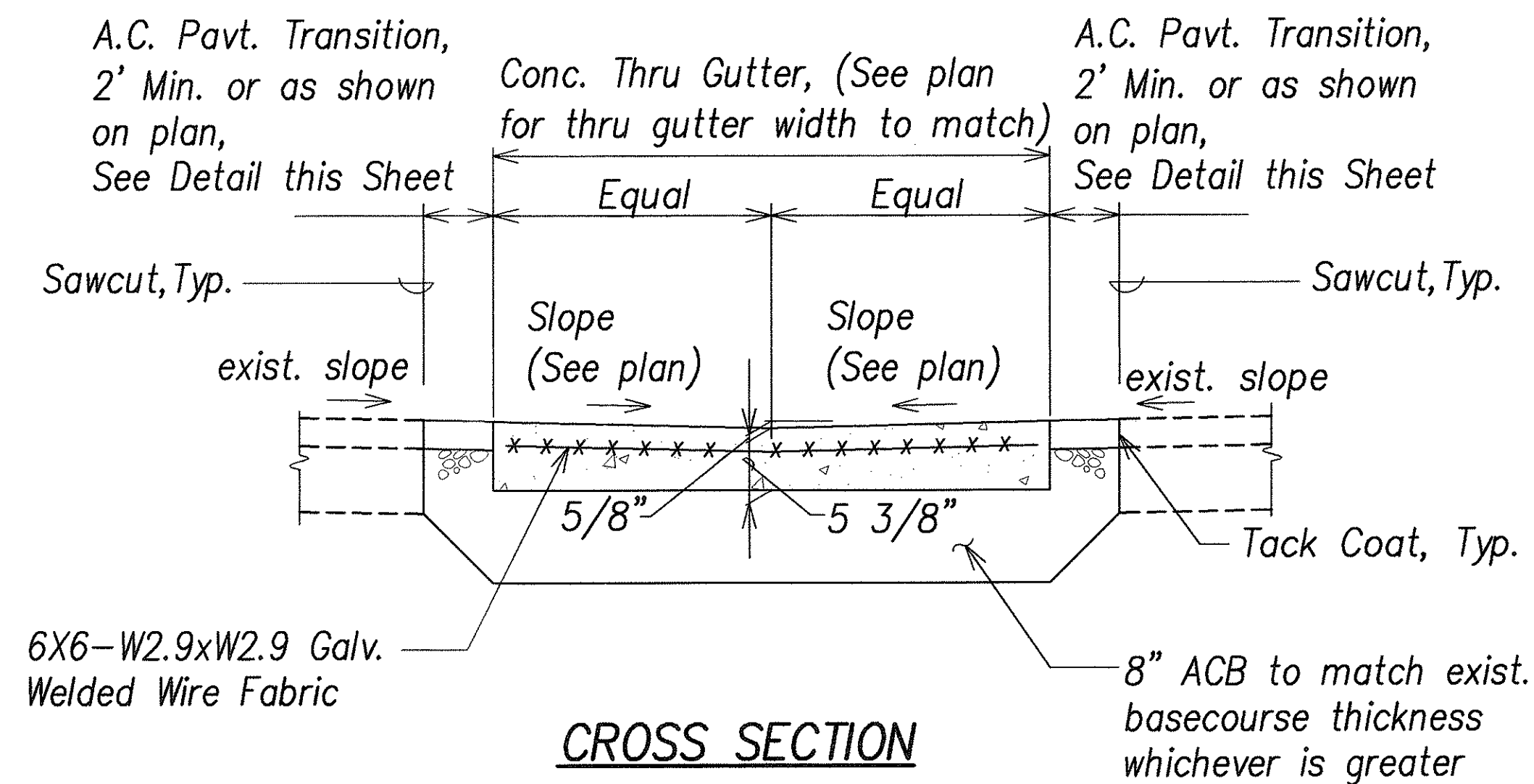


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CMAQ-0300(97)	2004	26	163

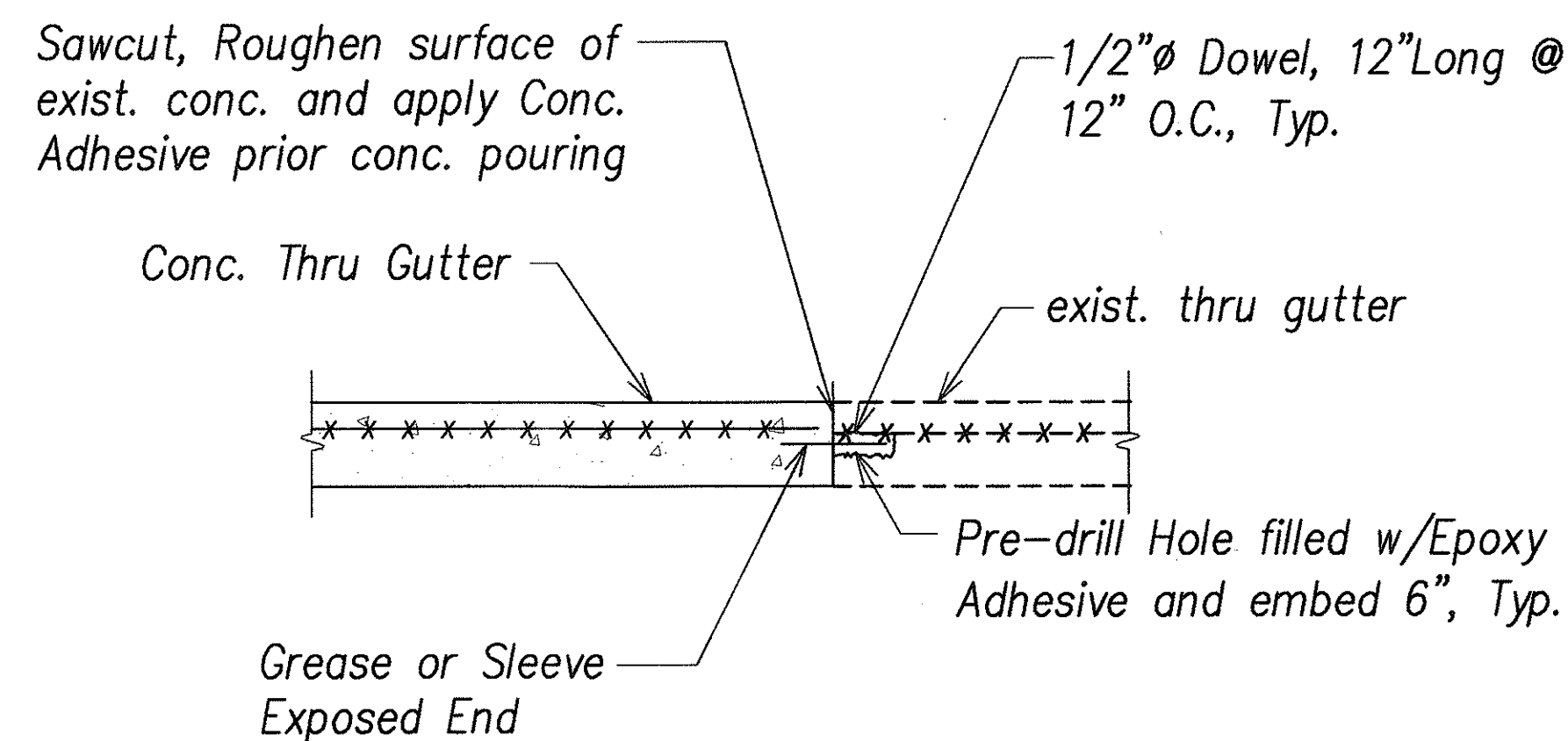


**PAVEMENT TRANSITION DETAIL**

Not to scale



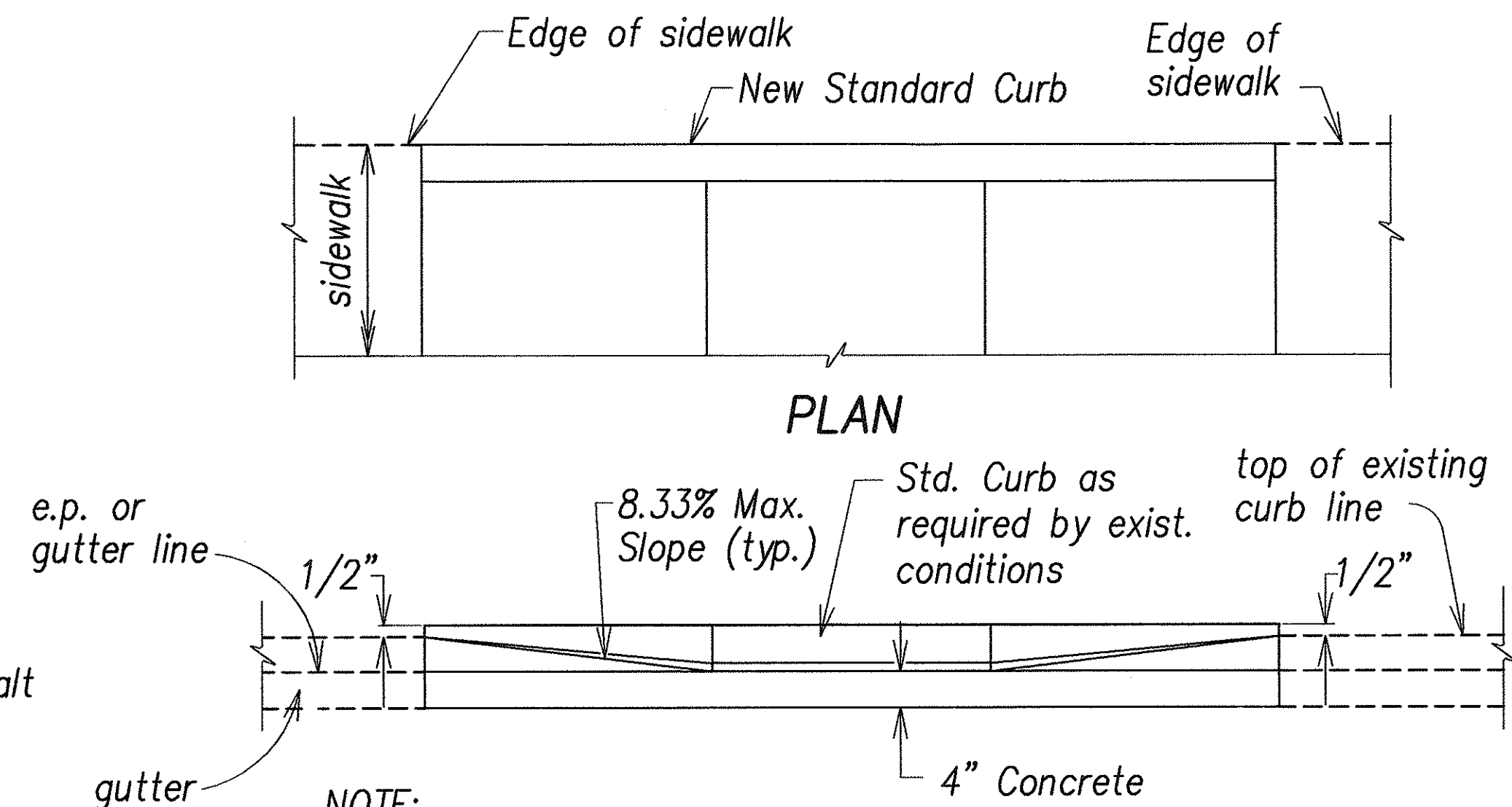
**CROSS SECTION**



**LONGITUDINAL SECTION**

**CONCRETE THRU GUTTER CONNECTION DETAIL**

Not to scale



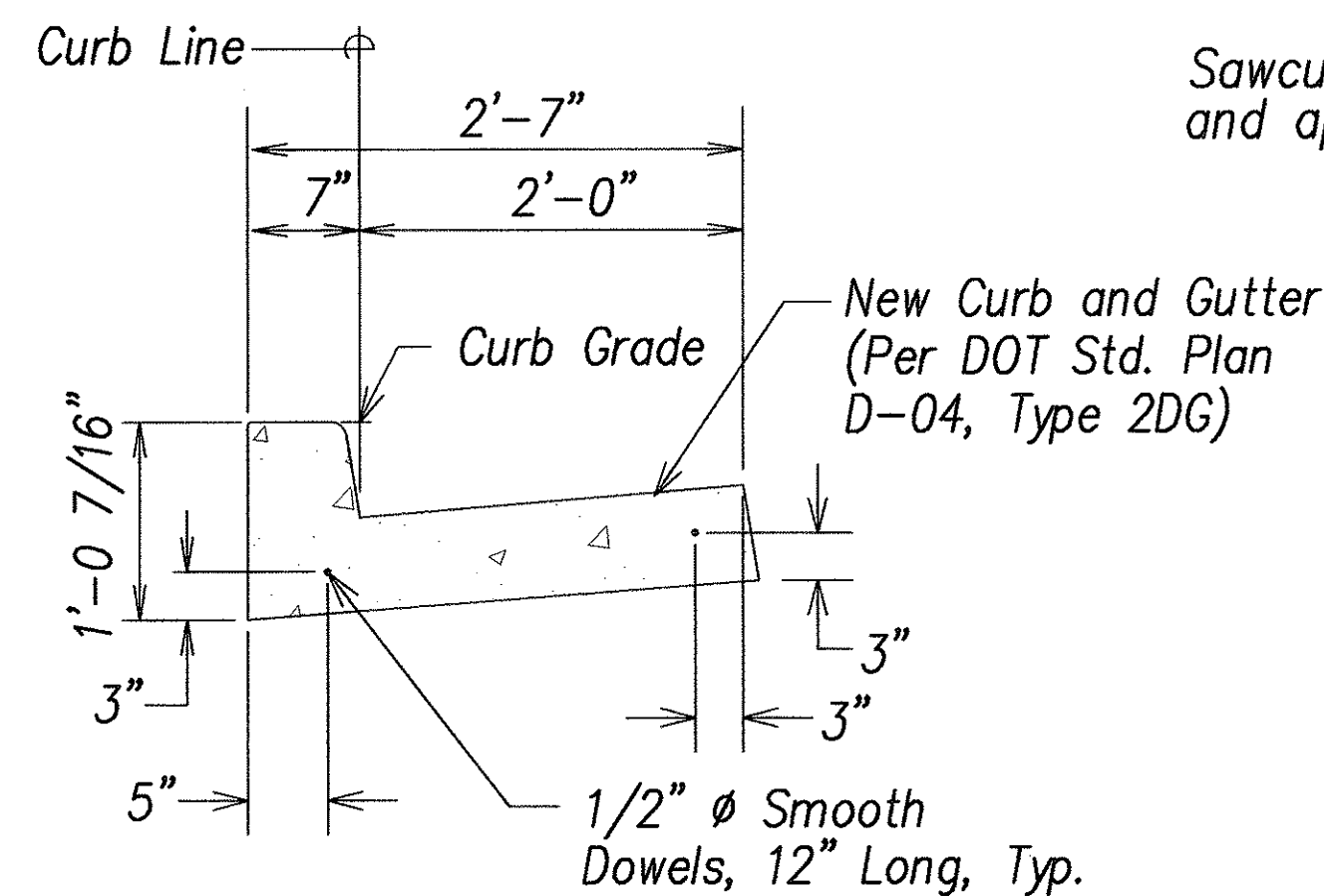
**PLAN**

**ELEVATION**

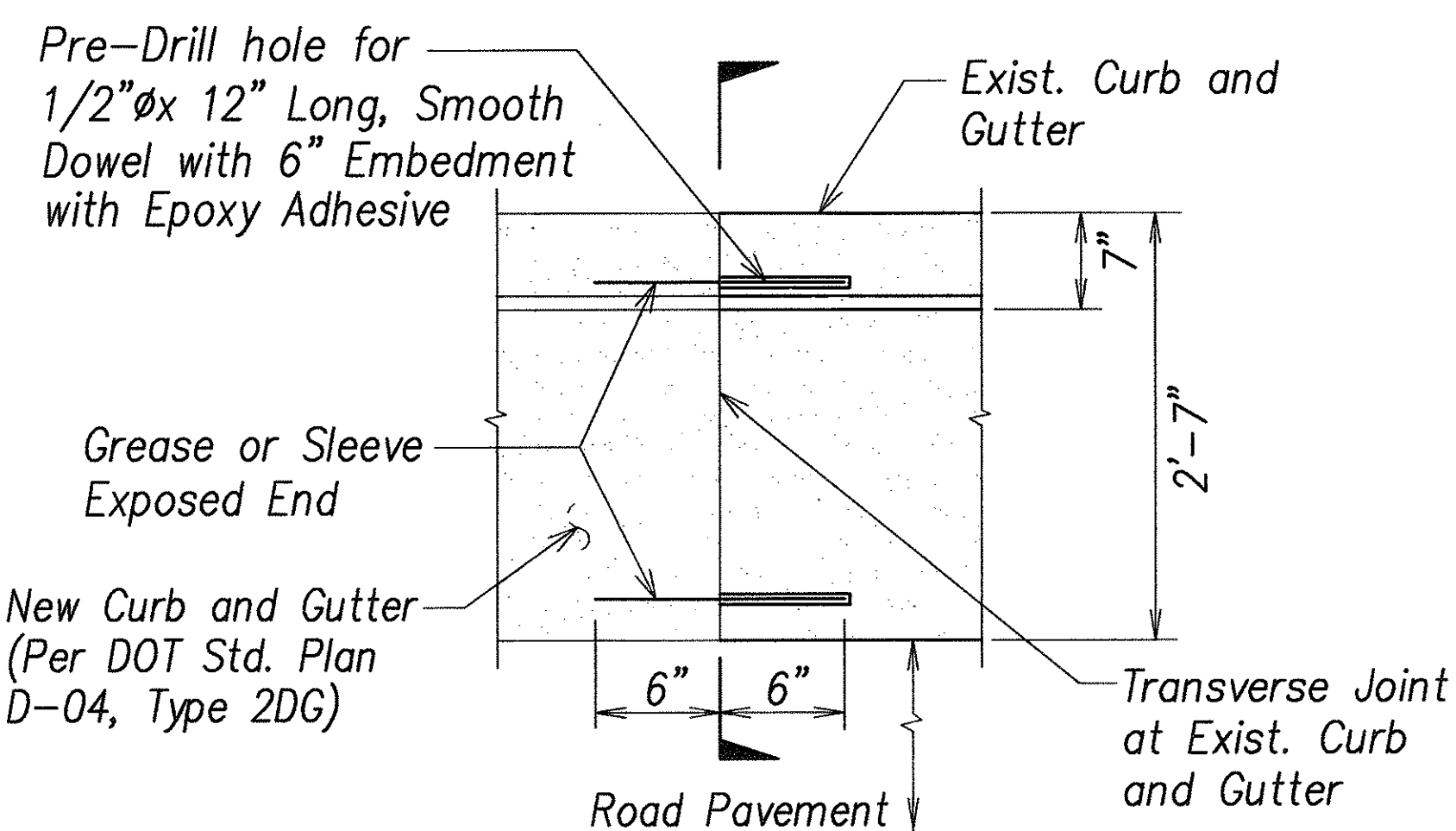
**DETAIL - BACK CURB**

Not to scale

**NOTE:**  
All curb ramps shall be reinforced.



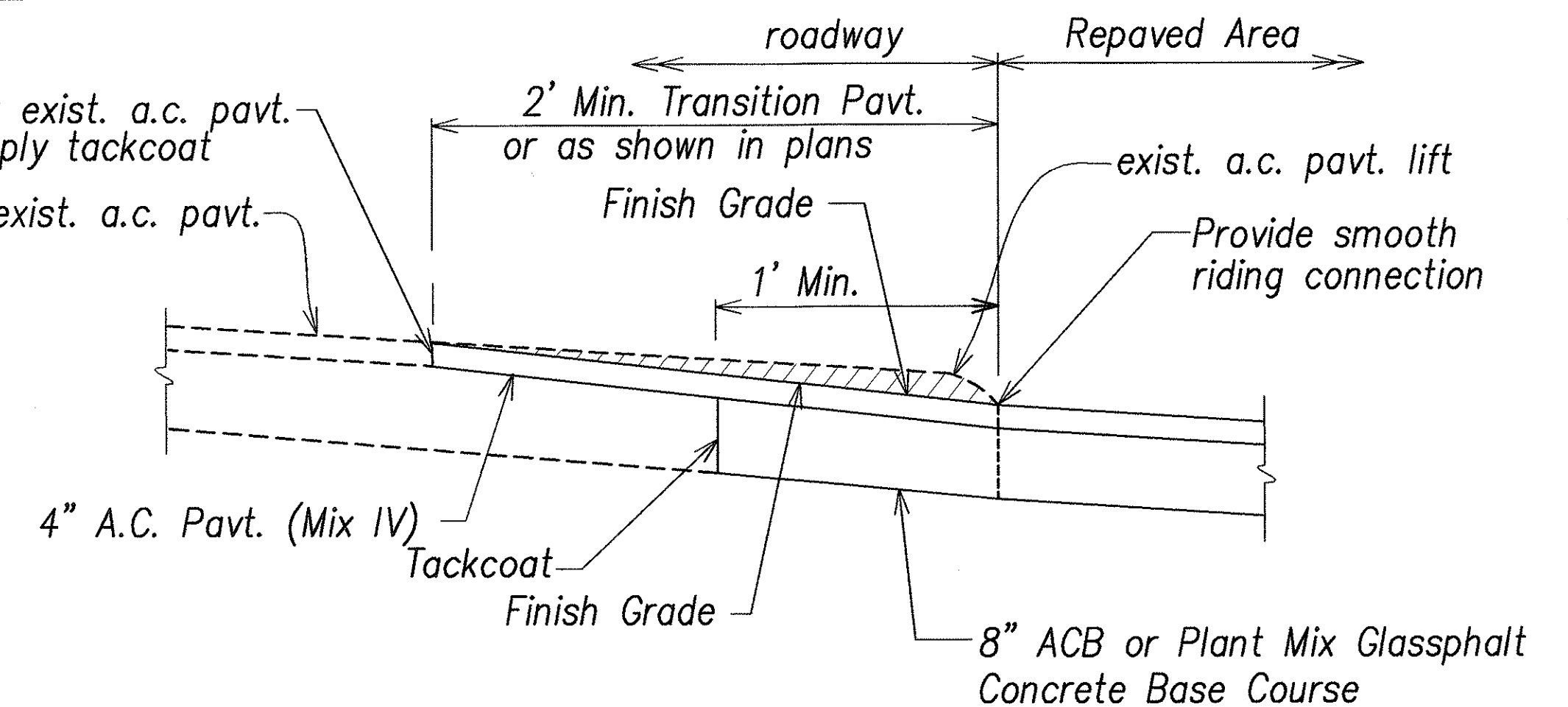
**SECTION**



**PLAN**

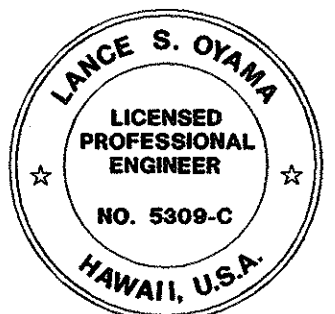
**CURB AND GUTTER CONNECTION**

Not to scale



**PAVEMENT RESTORATION DETAIL**

Not to scale



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Signature: *Lance S. Oyama*  
DATE: APRIL 30, 2006

"OBSERVATION OF CONSTRUCTION" IS DEFINED IN CHAPTER 16-115, HAWAII ADMINISTRATIVE RULES ENTITLED "PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS AND LANDSCAPE ARCHITECTS".

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**MISCELLANEOUS DETAILS - 1**

*Pedestrian Facilities & ADA Compliance  
at Various Locations on Oahu, Unit 6  
Fed. Aid Proj. No. CMAQ-0300(97)*

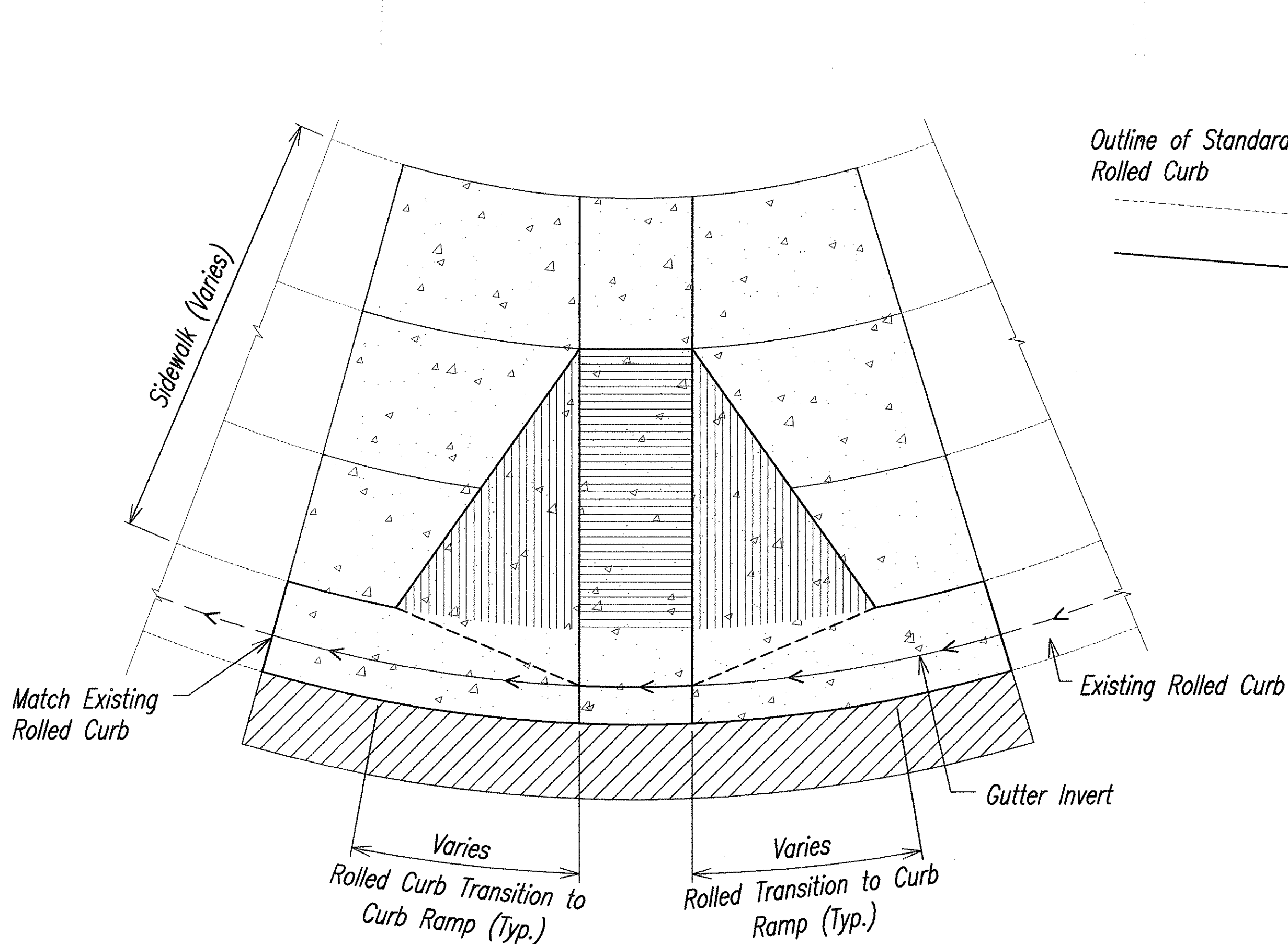
Scale: As Shown Date: JULY 19, 2004

SHEET No. C-25 OF 122 SHEETS

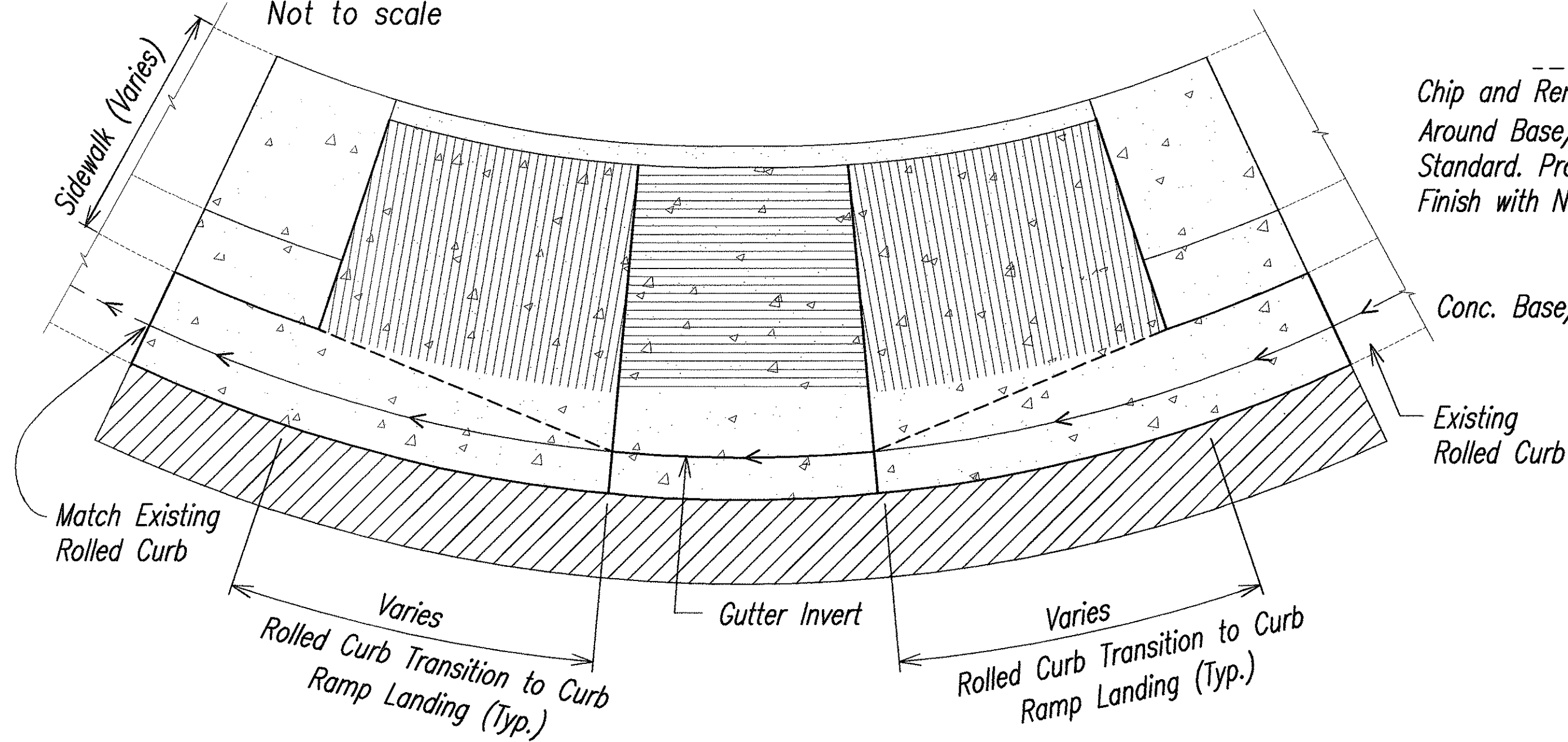
SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	

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

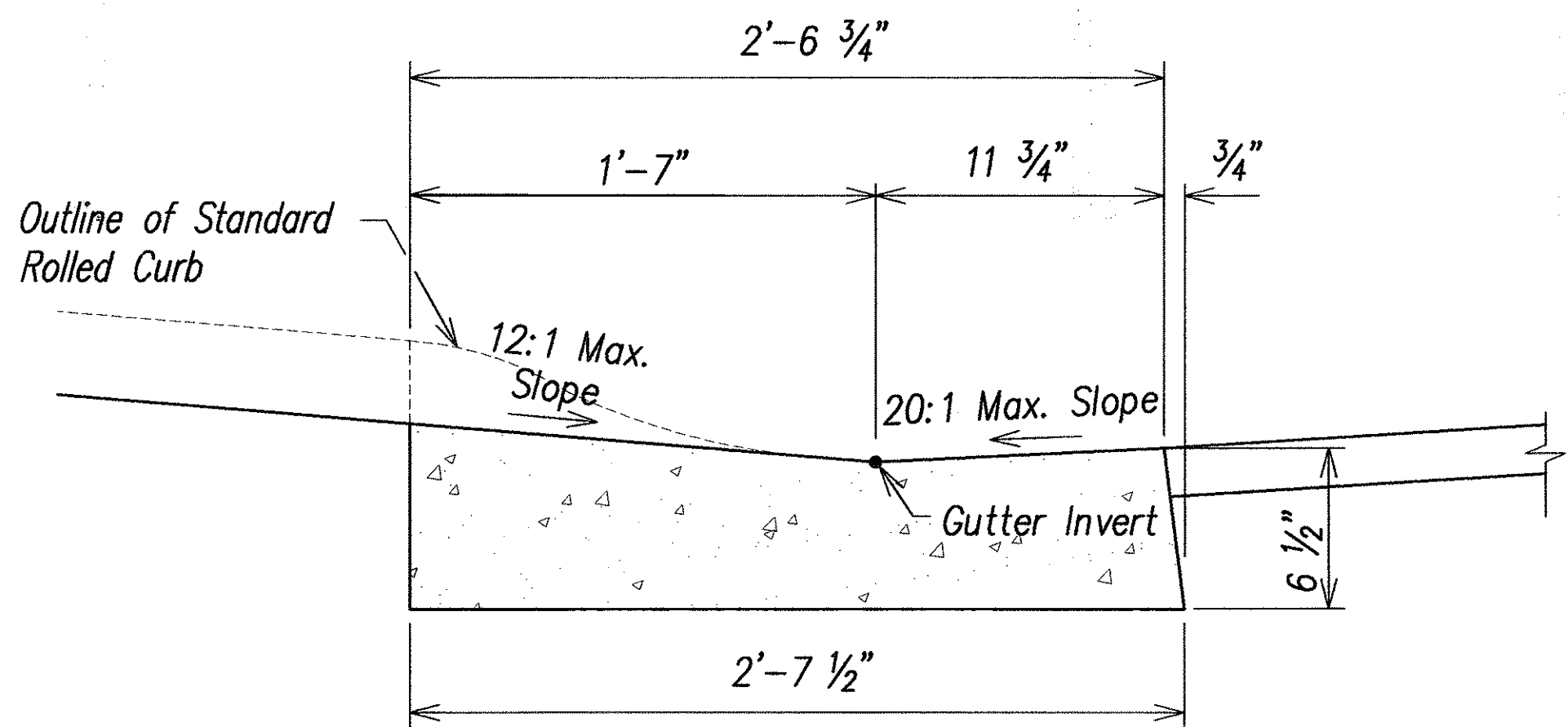
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CMAQ-0300(97)	2004	27	163



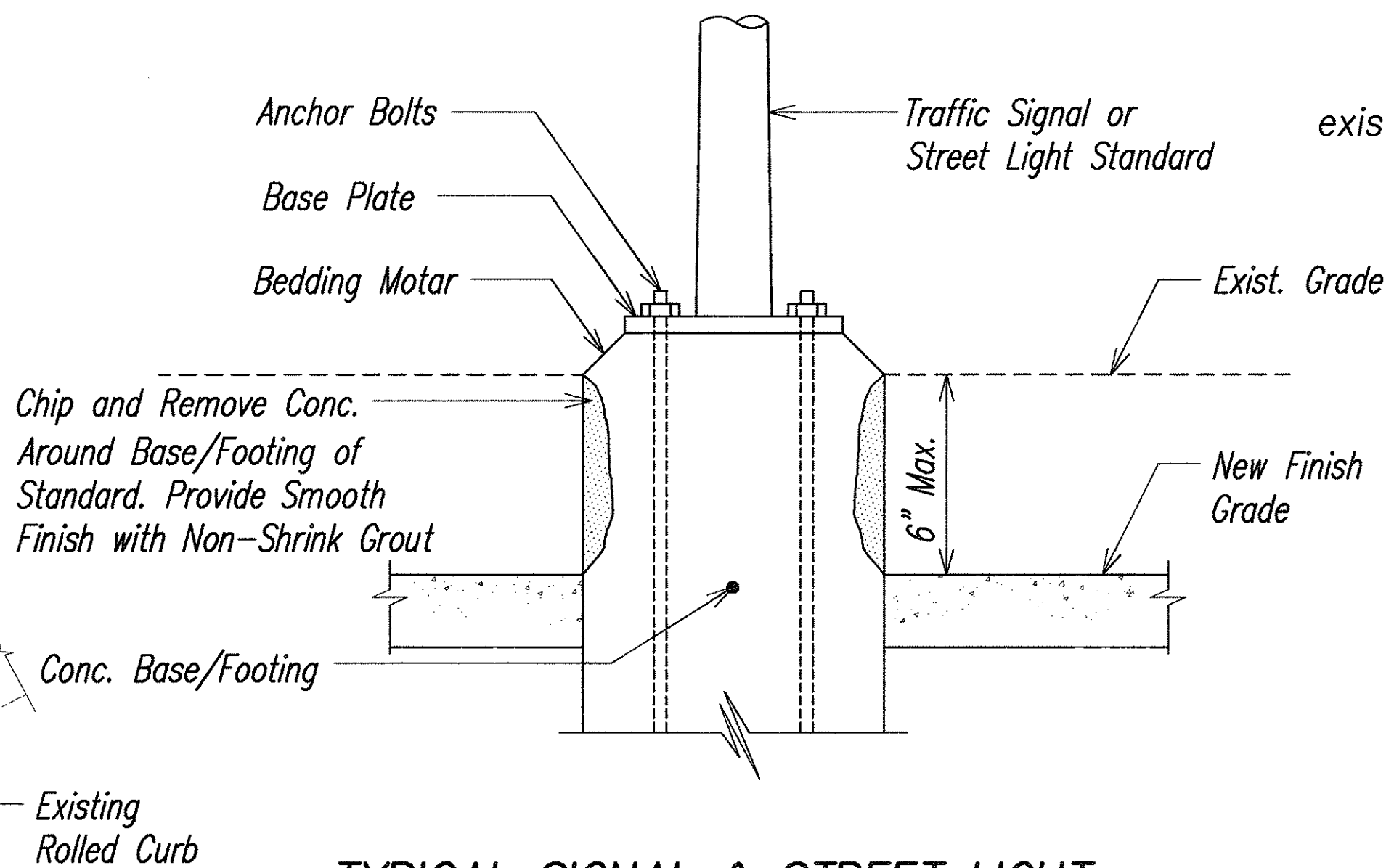
**PLAN – TYPE "A" CURB RAMP W/ ROLLED CURB**  
Not to scale



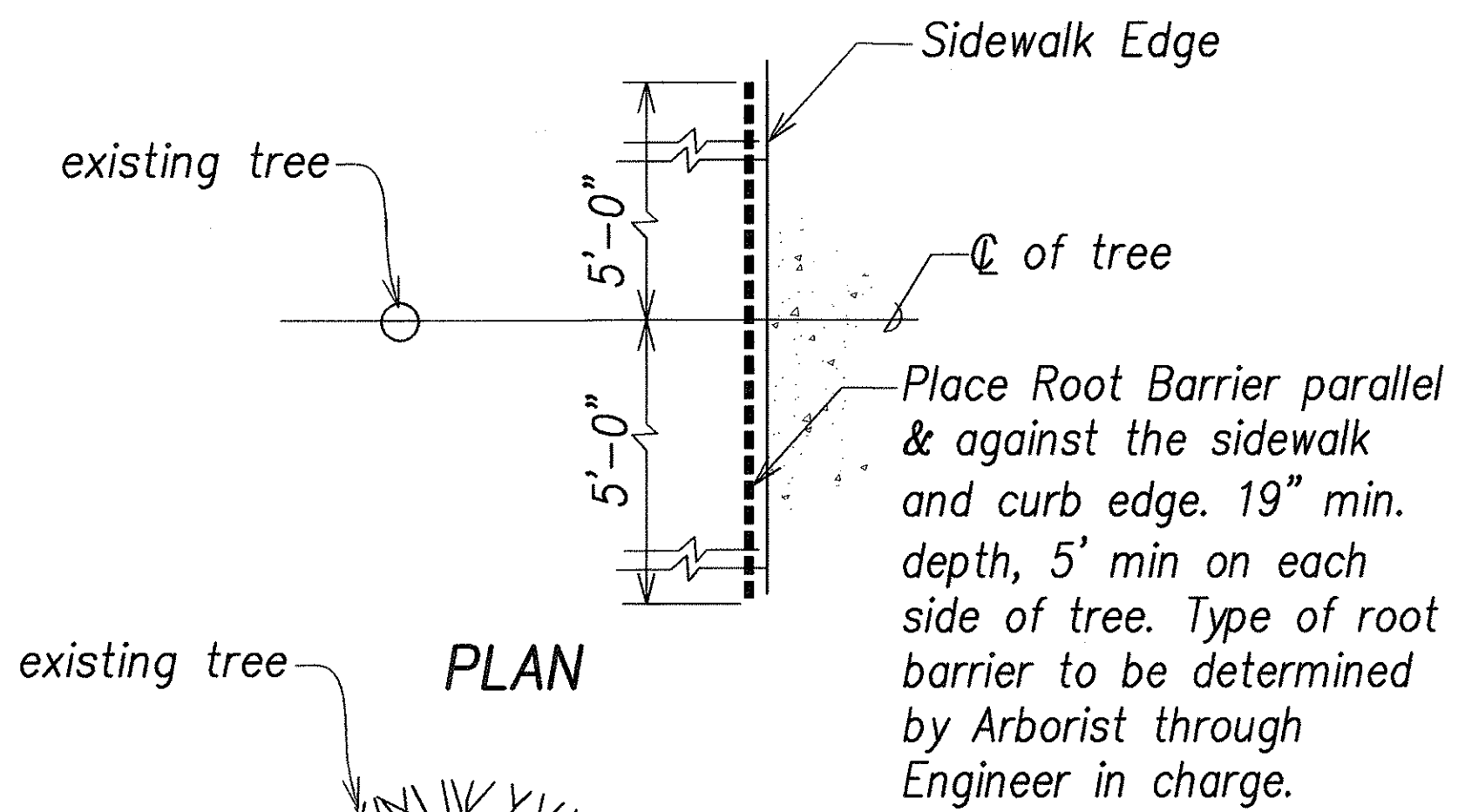
**PLAN – TYPE "B" CURB RAMP W/ ROLLED CURB**  
Not to scale



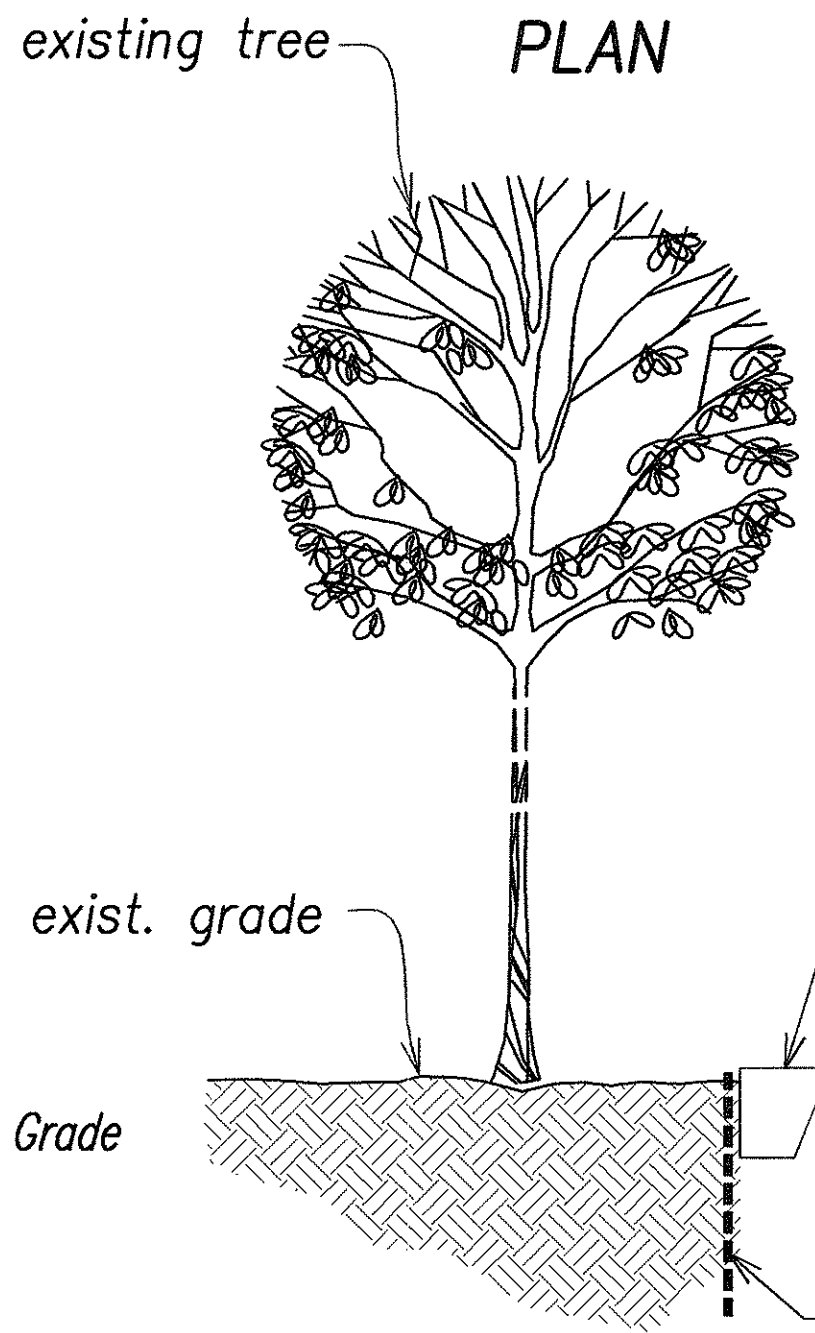
**DETAIL – ROLLED CURB TRANSITION TO CURB RAMP**  
Not to scale



**TYPICAL SIGNAL & STREET LIGHT STANDARD BASE RESTORATION DETAIL**  
Not to scale

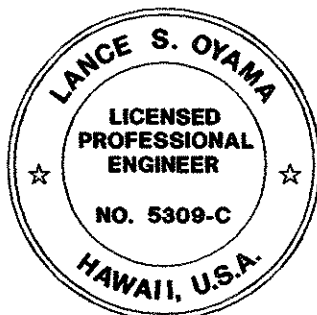


**PLAN**



**ELEVATION**

**ROOT BARRIER DETAIL**  
Not to scale



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*Lance S. Oyama*  
SIGNATURE DATE  
"OBSERVATION OF CONSTRUCTION" IS DEFINED IN CHAPTER 16-115, HAWAII ADMINISTRATIVE RULES ENTITLED "PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS AND LANDSCAPE ARCHITECTS".

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**MISCELLANEOUS DETAILS – 2**  
  
Pedestrian Facilities & ADA Compliance  
at Various Locations on Oahu, Unit 6  
Fed. Aid Proj. No. CMAQ-0300(97)  
Scale: As Shown Date: JULY 19, 2004  
**SHEET No. C-26 OF 122 SHEETS**

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

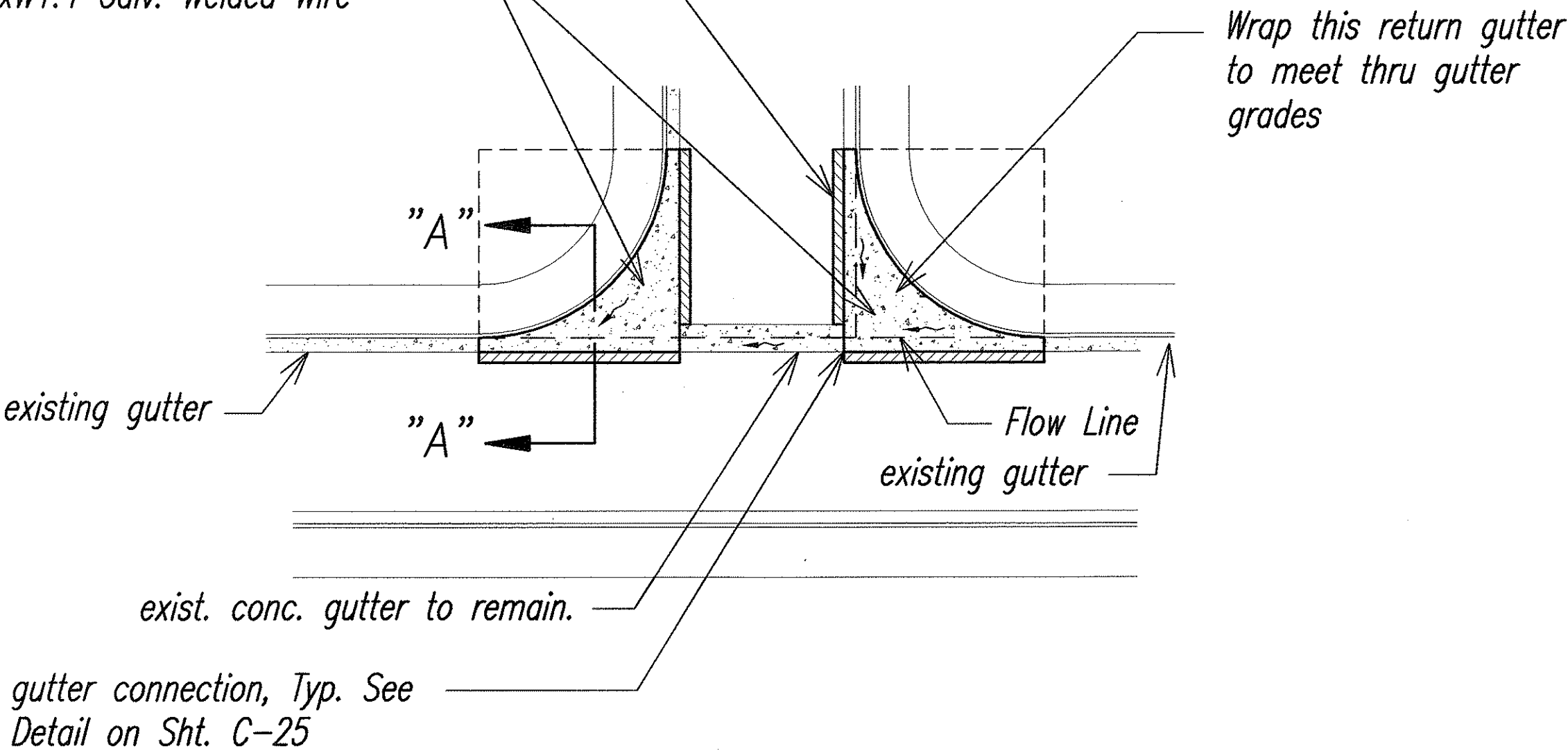
DATE	REVISION
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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CMAQ-0300(97)	2004	28	163

A.C. Pavement Transition, Typ. See Detail on Sht. C-25

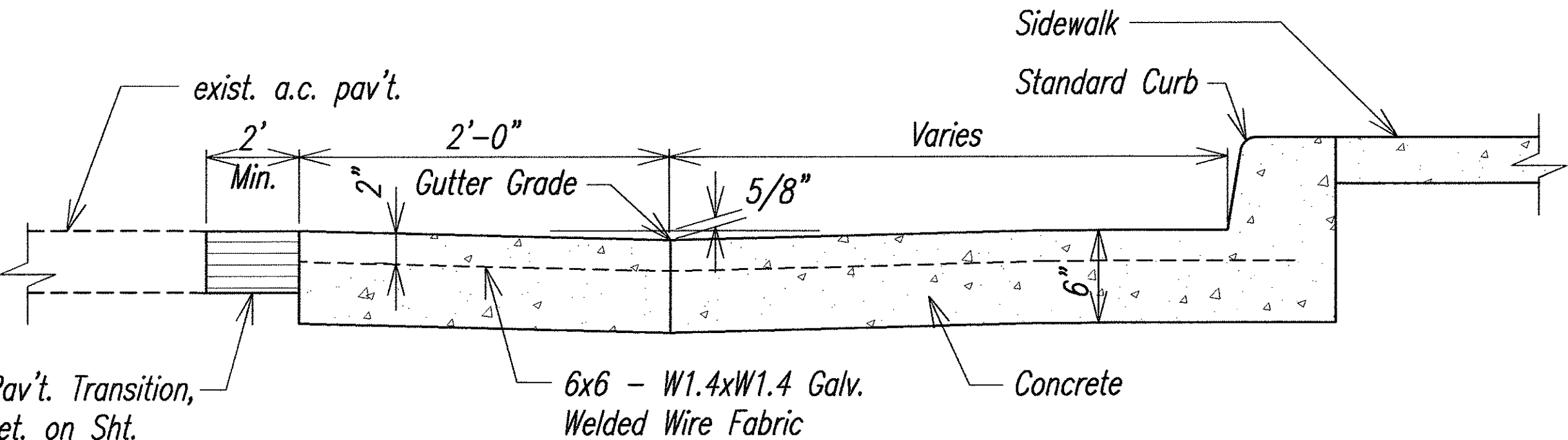
6" Thick Concrete Reinforced With 6x6-W1.4xW1.4 Galv. Welded Wire Fabric.



PLAN

**NOTE:**

Construction joints to exist. shall be as shown on sheet C-25.

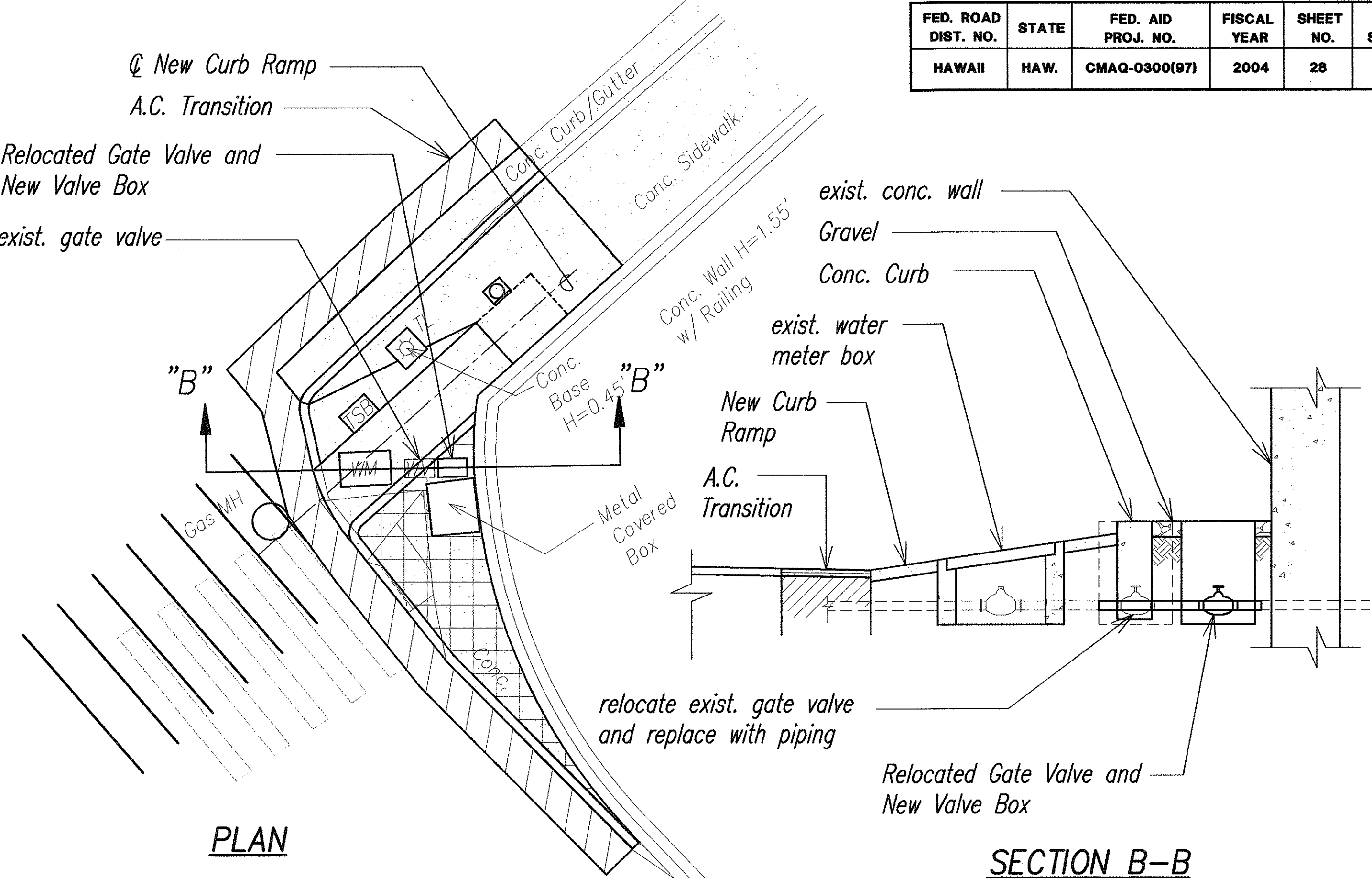


A.C. Pav't. Transition, See Det. on Sht. C-25

SECTION A-A

**THRU GUTTER**

Not to scale

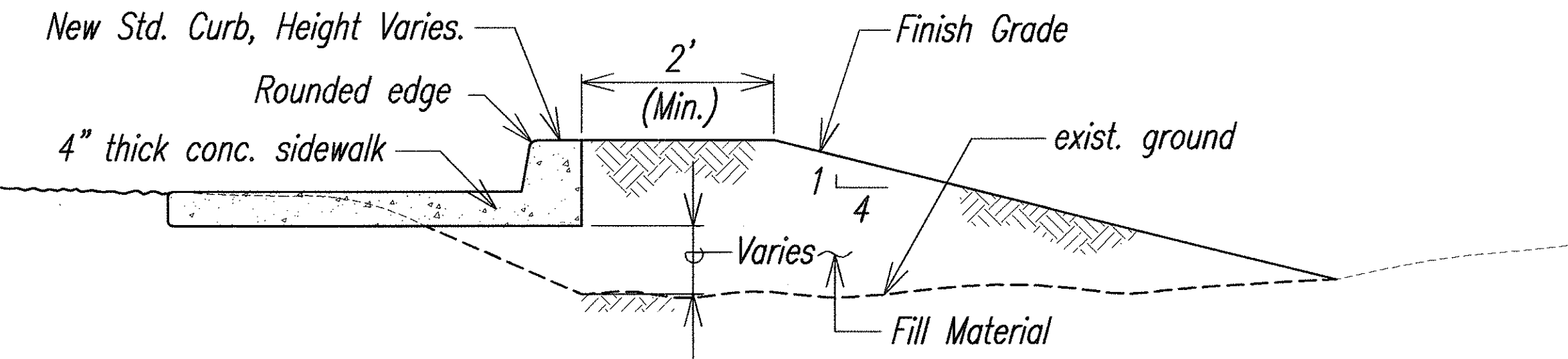


PLAN

SECTION B-B

**WATER VALVE RELOCATION**

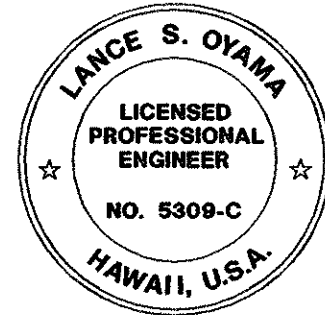
Not to scale



**SECTION**

**GRADE ADJUSTMENT**

Not to scale



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*Lance S. Oyama*

SIGNATURE DATE

APR 30, 2006

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STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**MISCELLANEOUS DETAILS - 3**

Pedestrian Facilities & ADA Compliance  
at Various Locations on Oahu, Unit 6  
Fed. Aid Proj. No. CMAQ-0300(97)

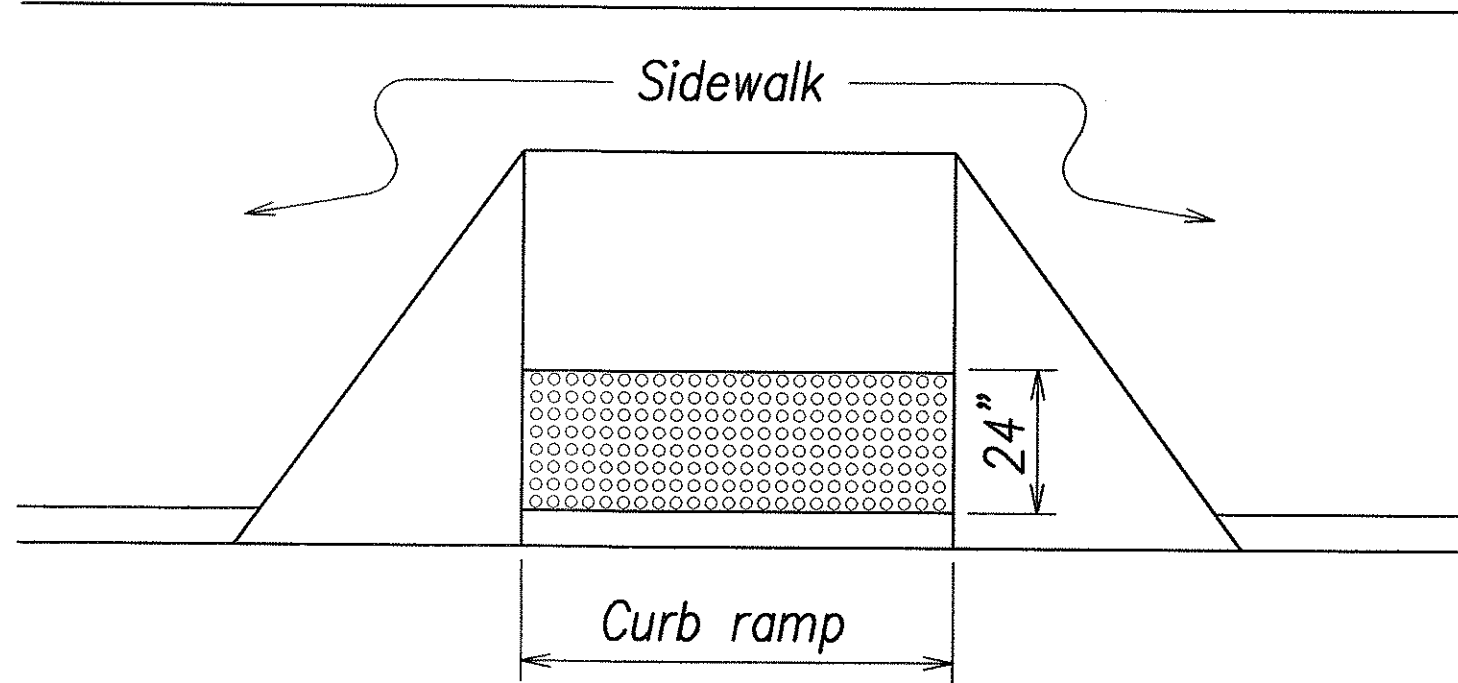
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SHEET No. C-27 OF 122 SHEETS

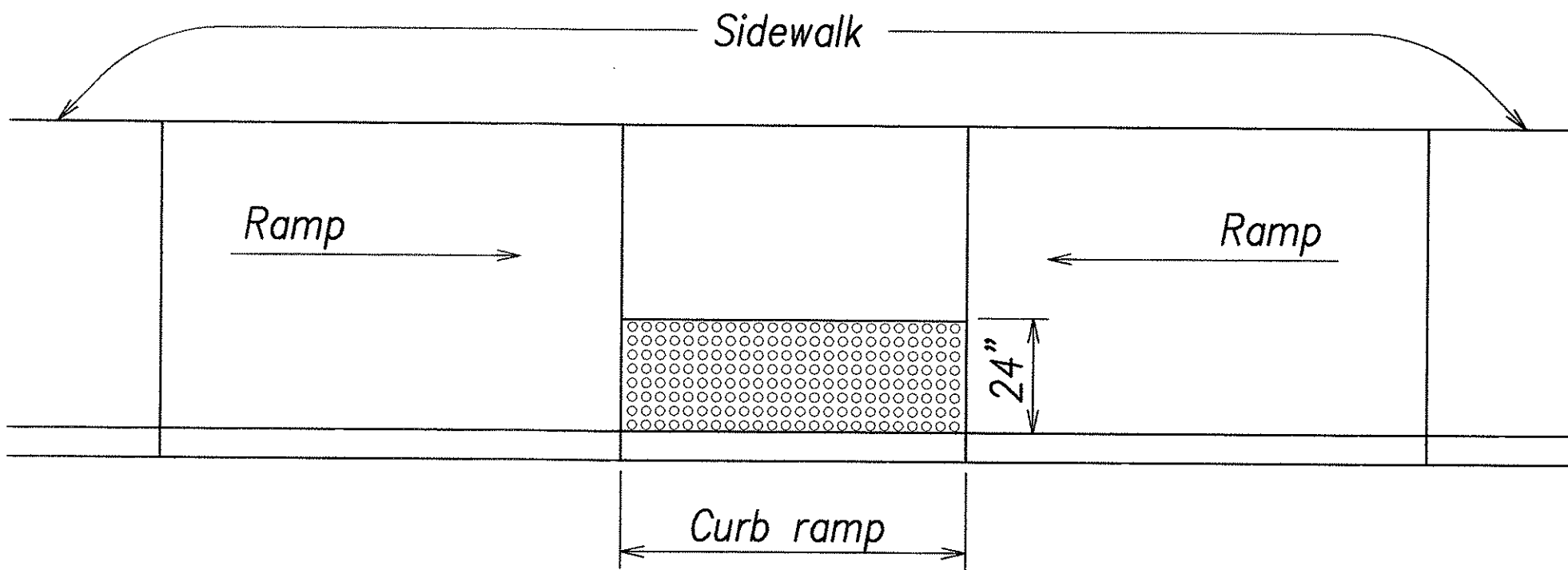
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
No.	DESIGNED BY	
	CHECKED BY	

DATE REVISION

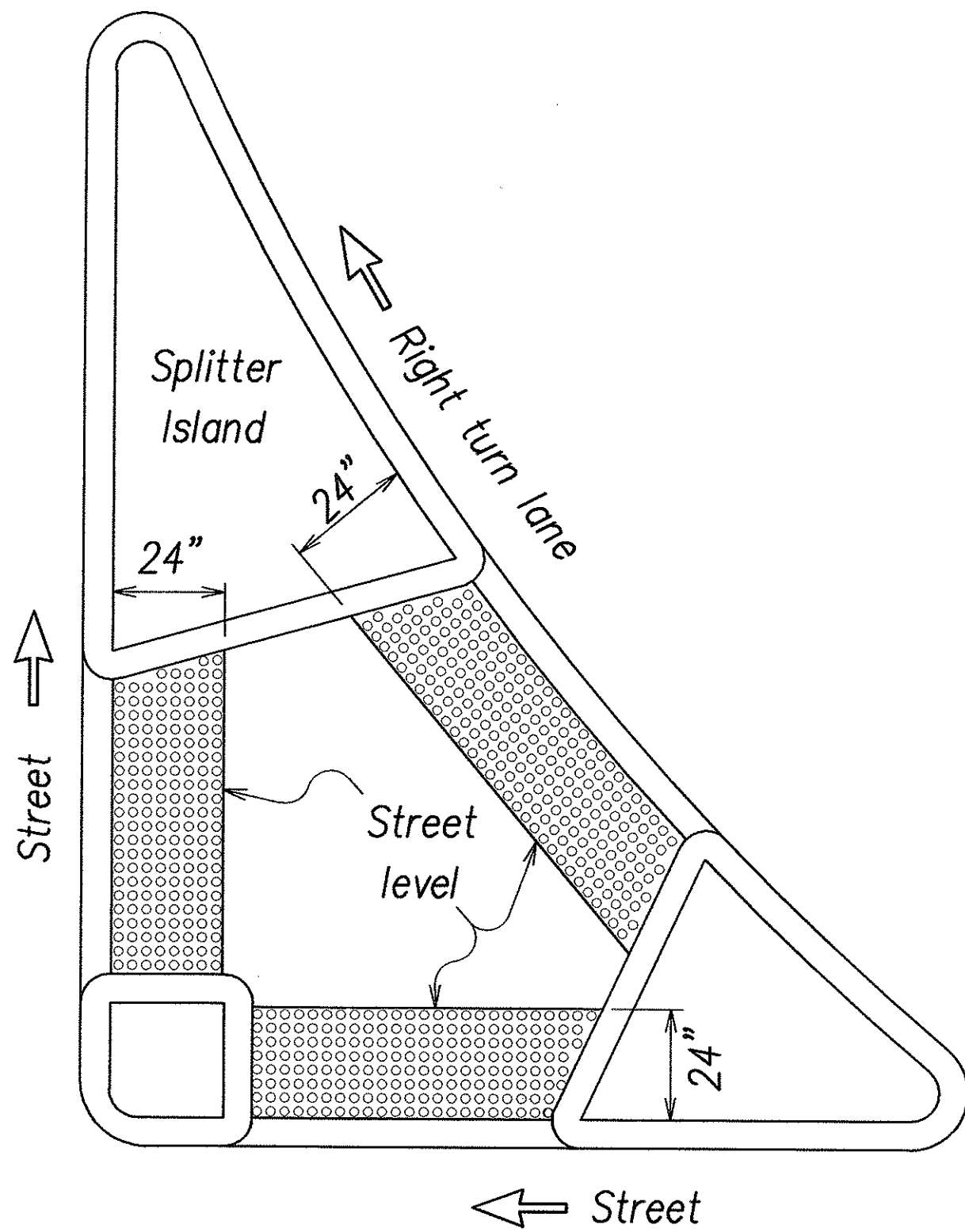
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CMAQ-0300(97)	2004	29	163



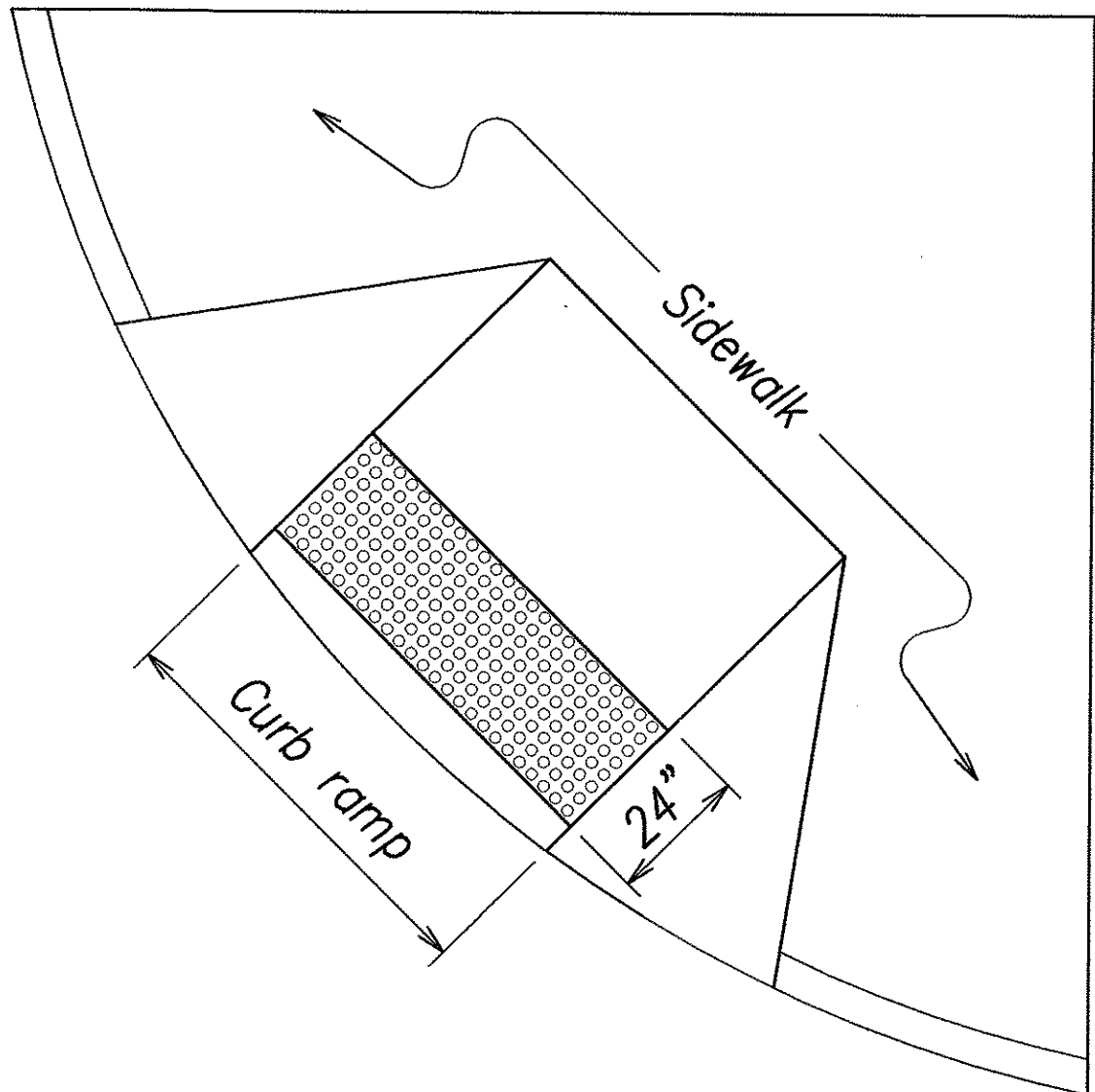
DETECTABLE WARNING AT CURB RAMP



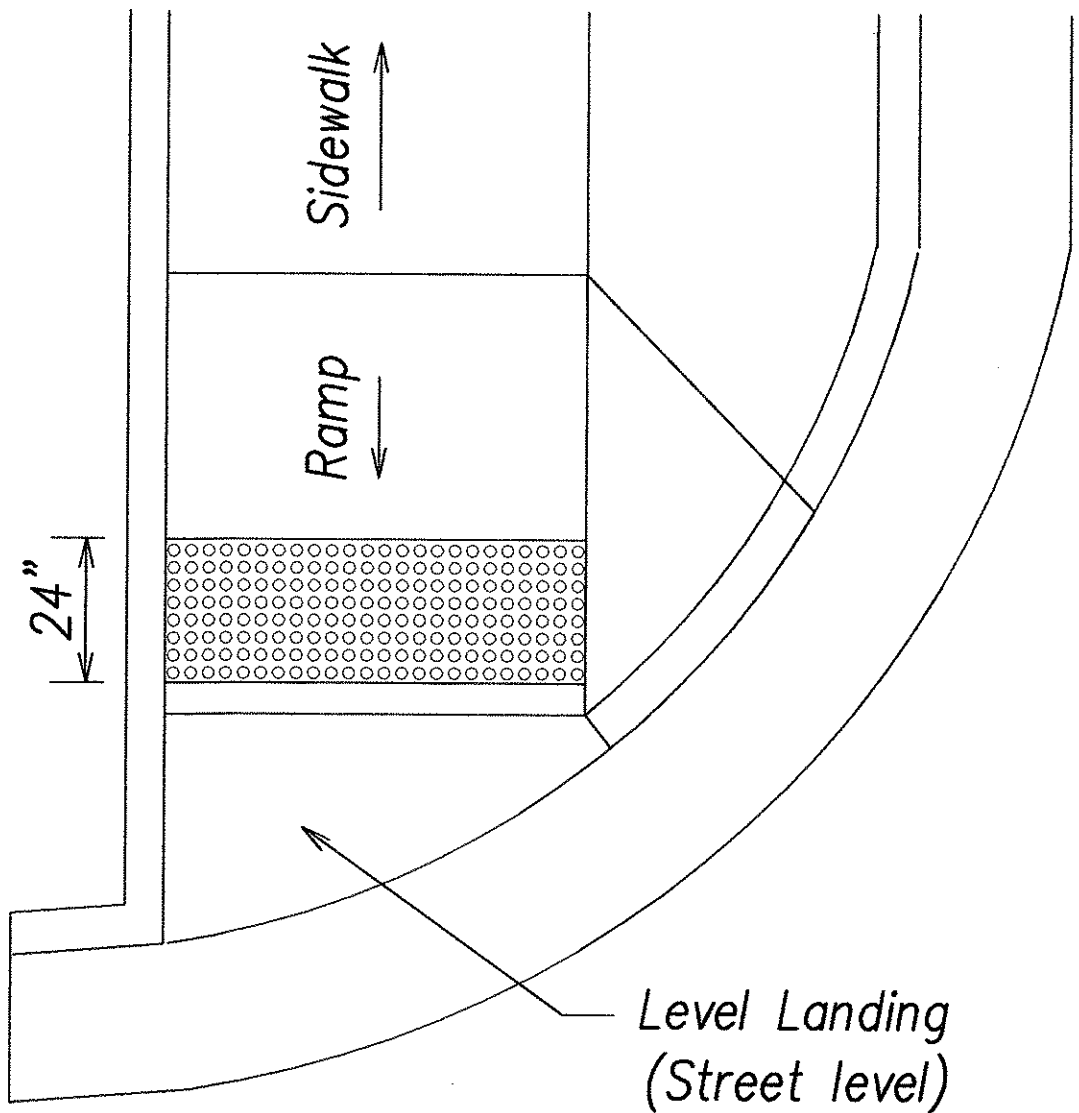
TRANSITION RAMP WITH DETECTABLE WARNING



REFUGE ISLAND WITH DETECTABLE WARNING



SHARED CURB RAMP WITH DETECTABLE WARNING



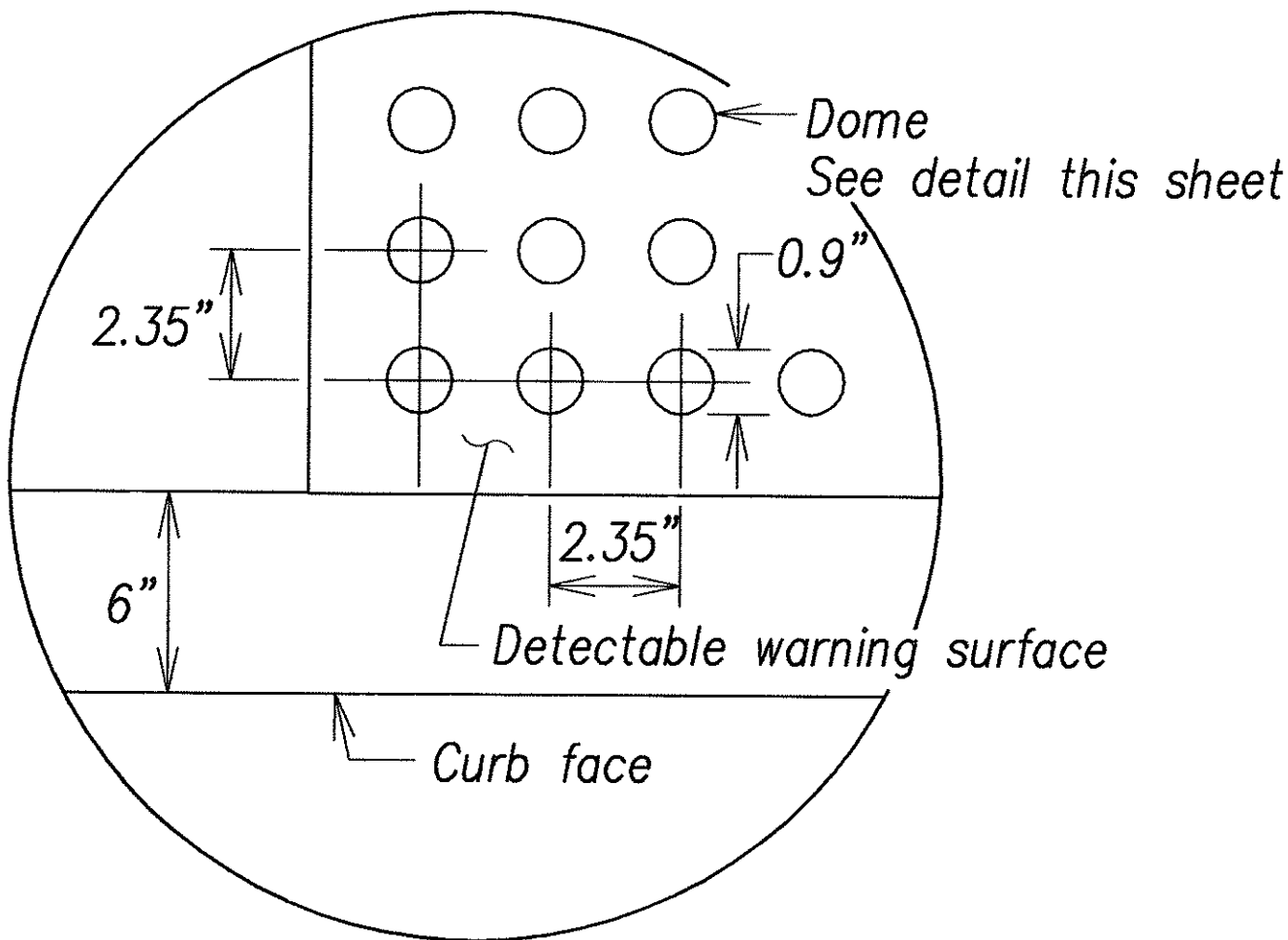
END OF SIDEWALK CURB RAMP WITH DETECTABLE WARNING

TYPICAL INSTALLATION OF DETECTABLE WARNINGS

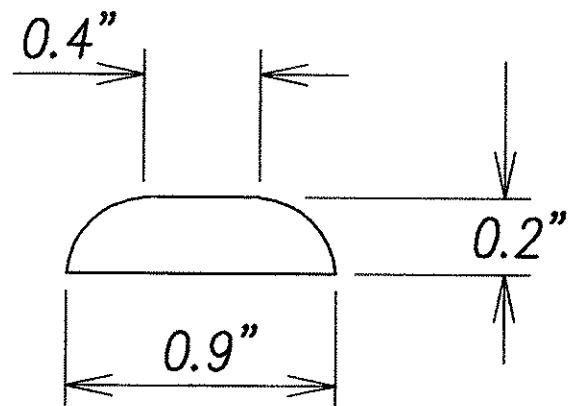
Not to Scale

NOTES:

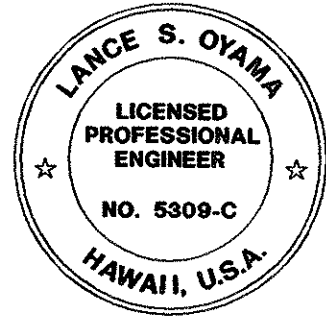
1. Detectable warnings shall be 24 inches in the direction of travel and extend the full width of the curb ramp or flush surface (does not include flares).
2. Truncated domes shall have a diameter of 0.9 inch at the bottom, a diameter of 0.4 inch at the top, a height of 0.2 inch and a center-to-center spacing of 2.35 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. 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



DOMES SECTION



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.  
 Signature: *Lance S. Oyama*  
 DATE: APRIL 30, 2006  
 "OBSERVATION OF CONSTRUCTION" IS DEFINED IN CHAPTER 16-115, HAWAII ADMINISTRATIVE RULES, ENTITLED "PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS AND LANDSCAPE ARCHITECTS".

STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION

DETECTABLE WARNING DETAILS

*Pedestrian Facilities & ADA Compliance at Various Locations on Oahu, Unit 6*  
 Fed. Aid Proj. No. CMAQ-0300(97)

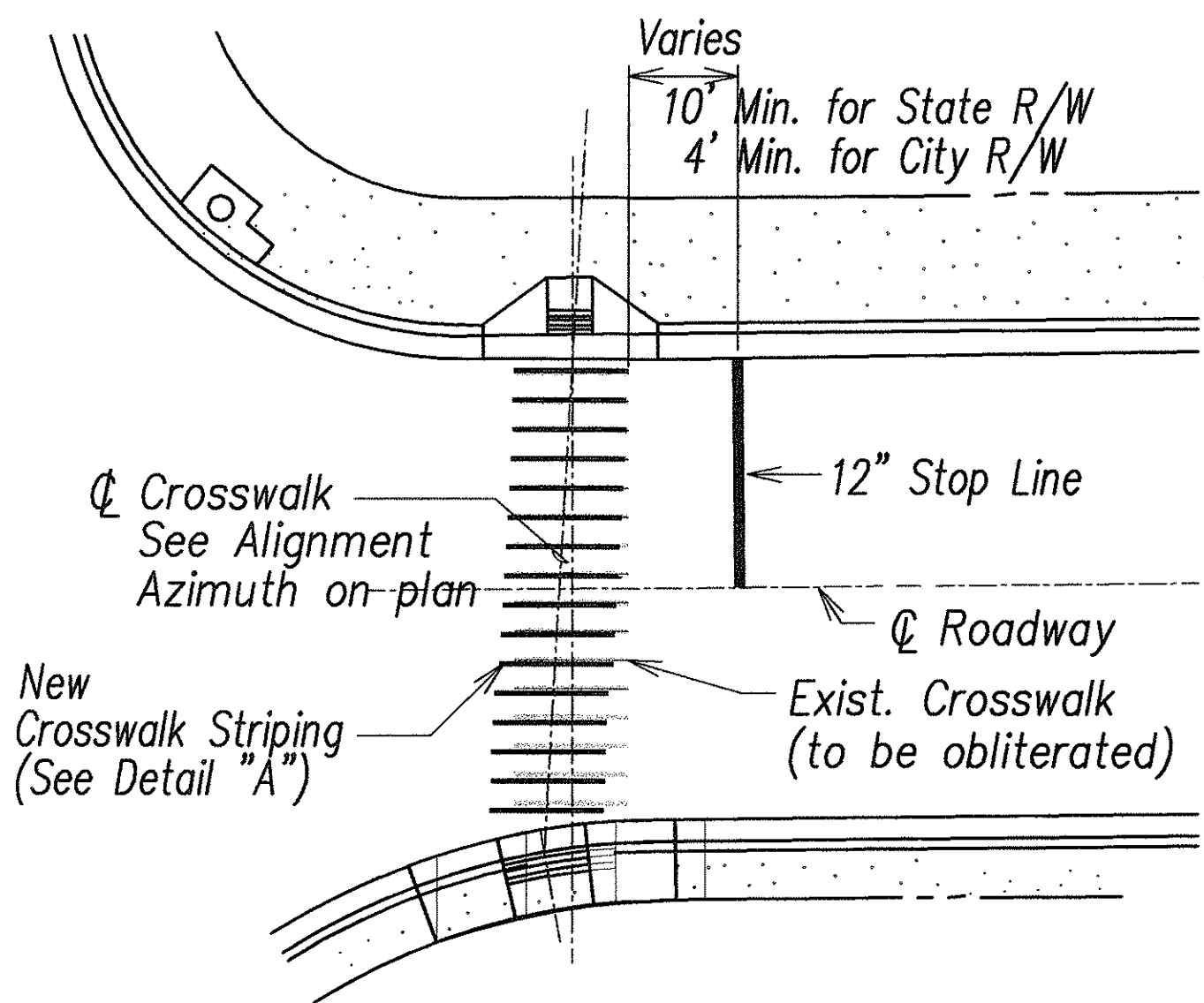
Scale: As Shown DATE: JULY 19, 2004

SHEET No. C-28 OF 122 SHEETS

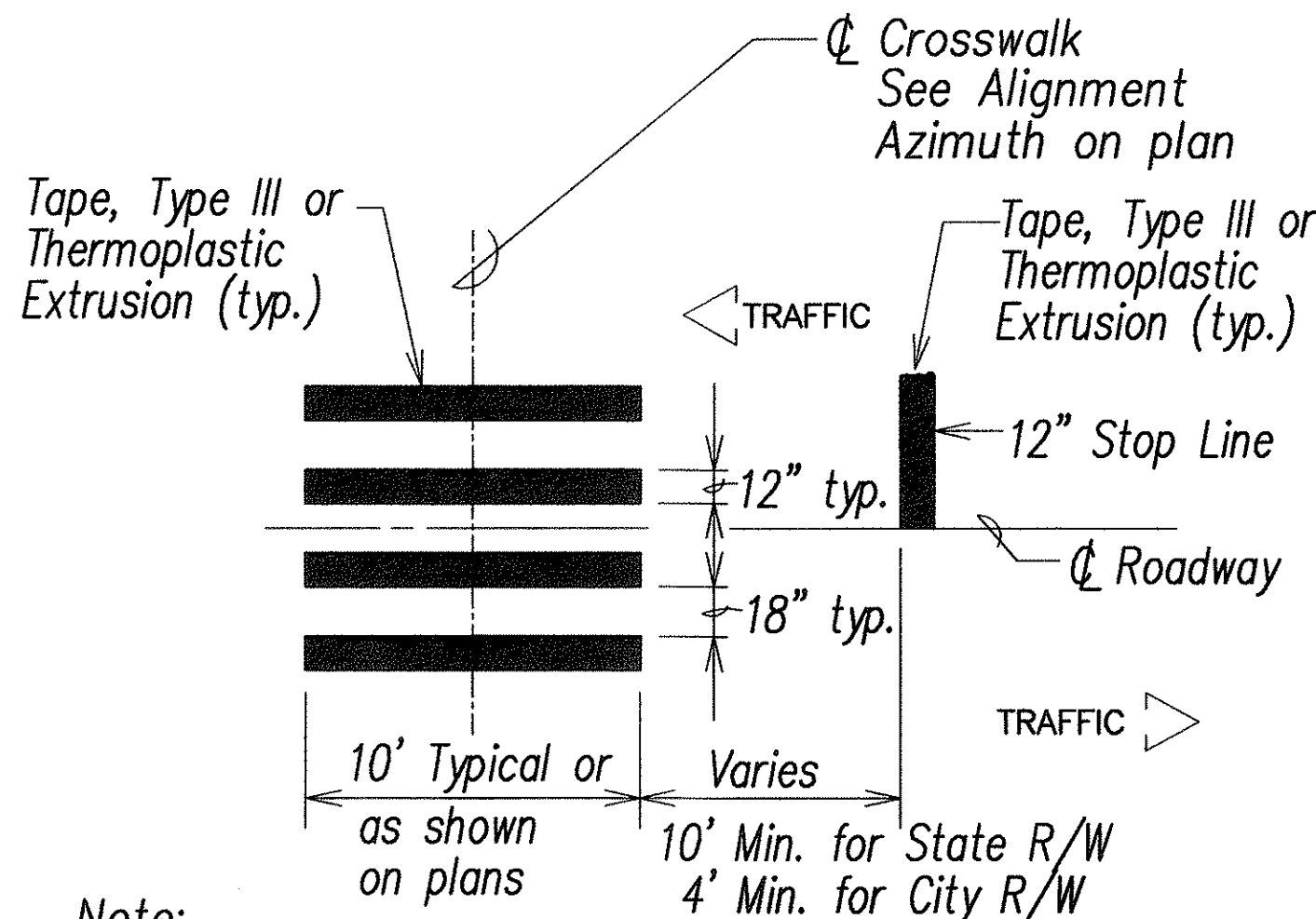
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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CMAQ-0300(97)	2004	30	163



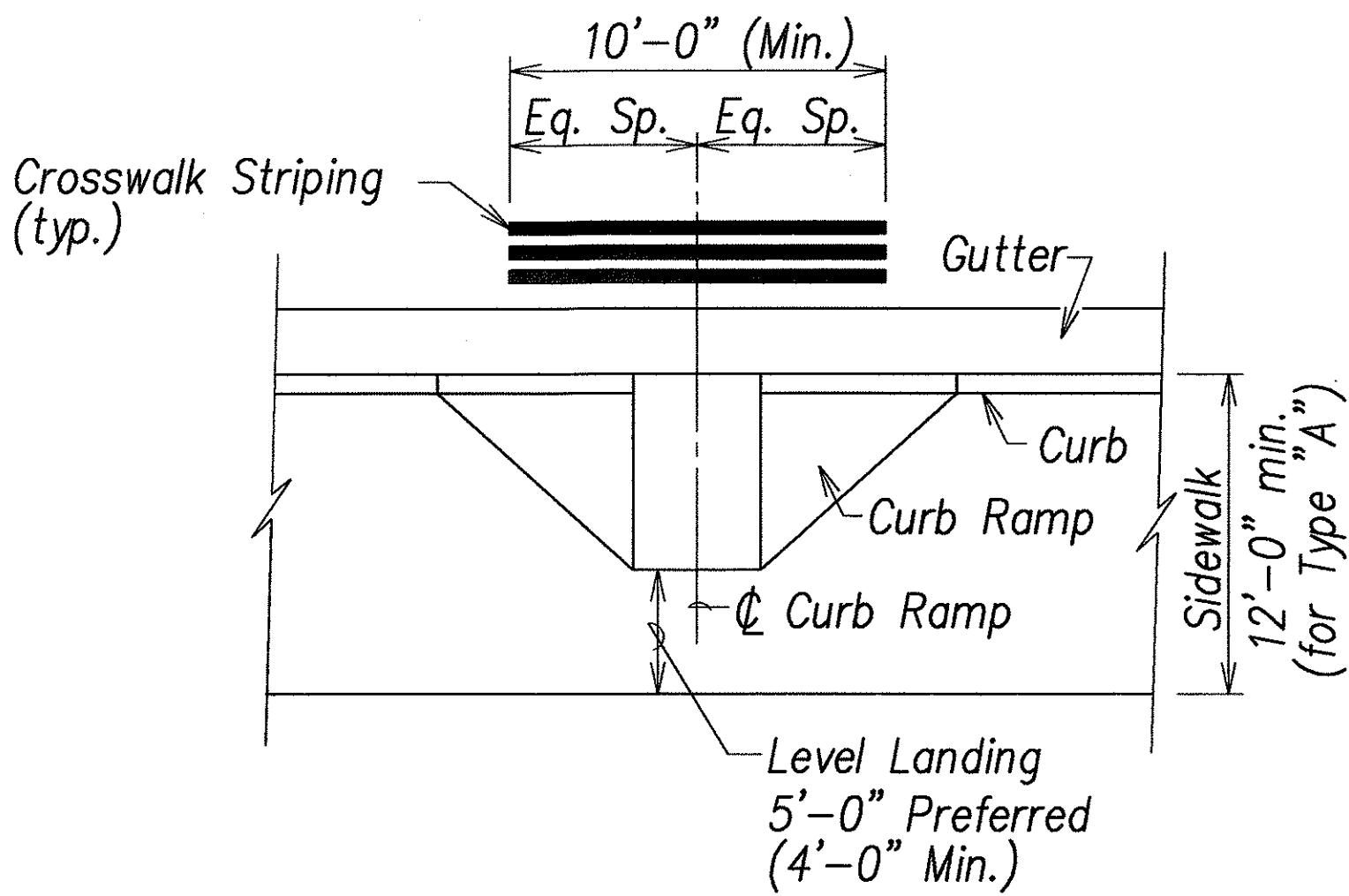
PLAN



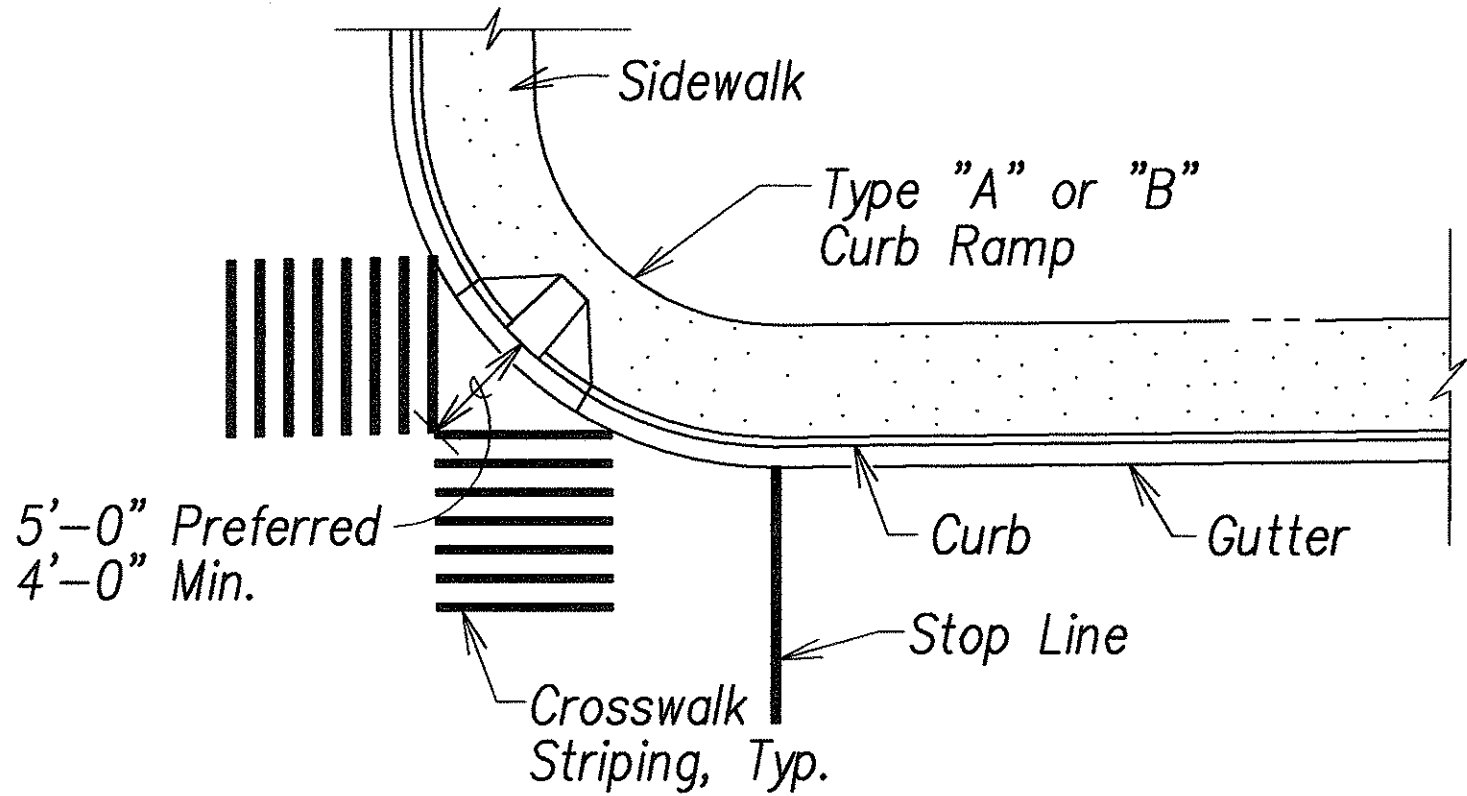
Note:  
Longitudinal lines  
shall be parallel  
to traffic flow.

DETAIL "A"

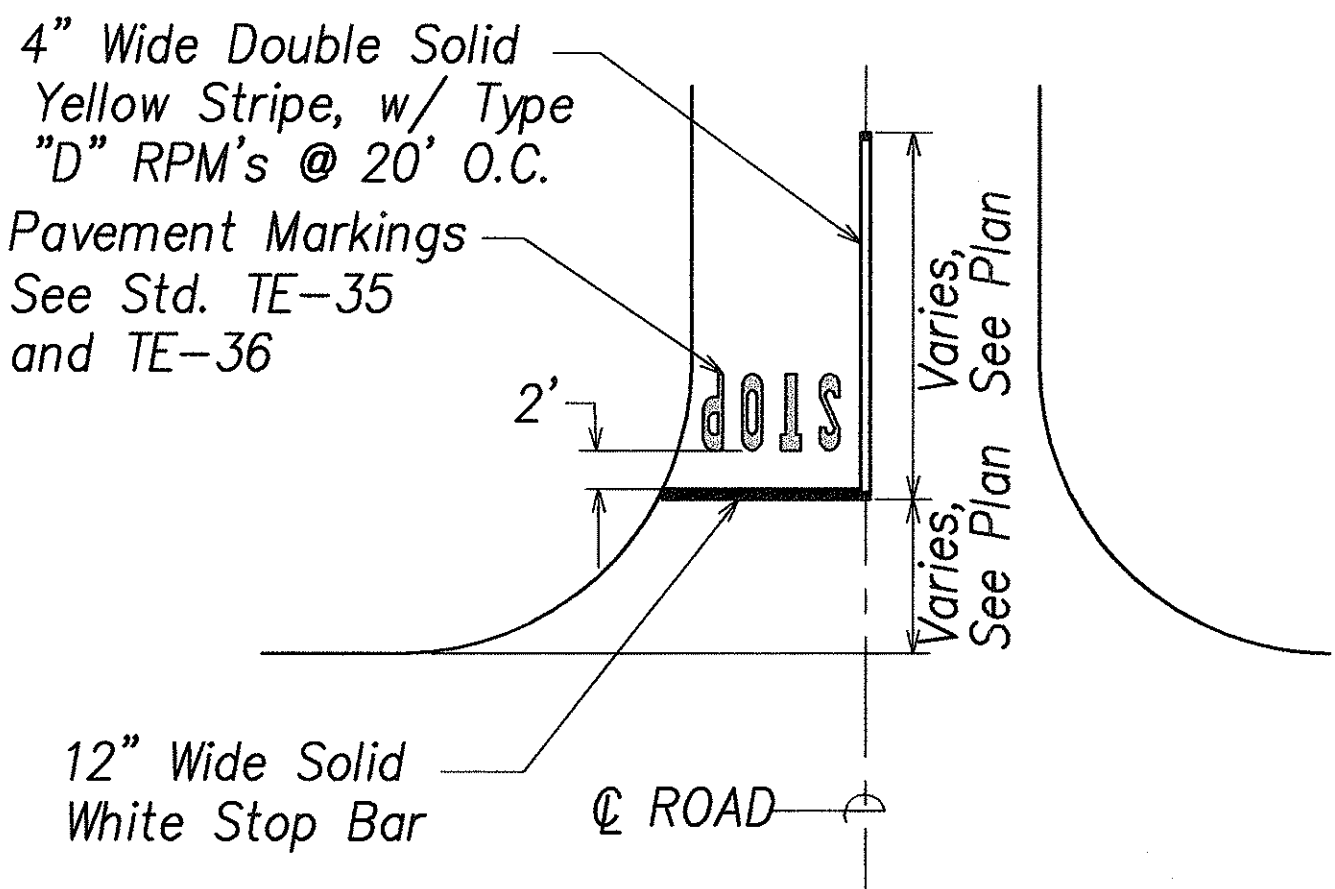
CROSSWALK STRIPING DETAIL



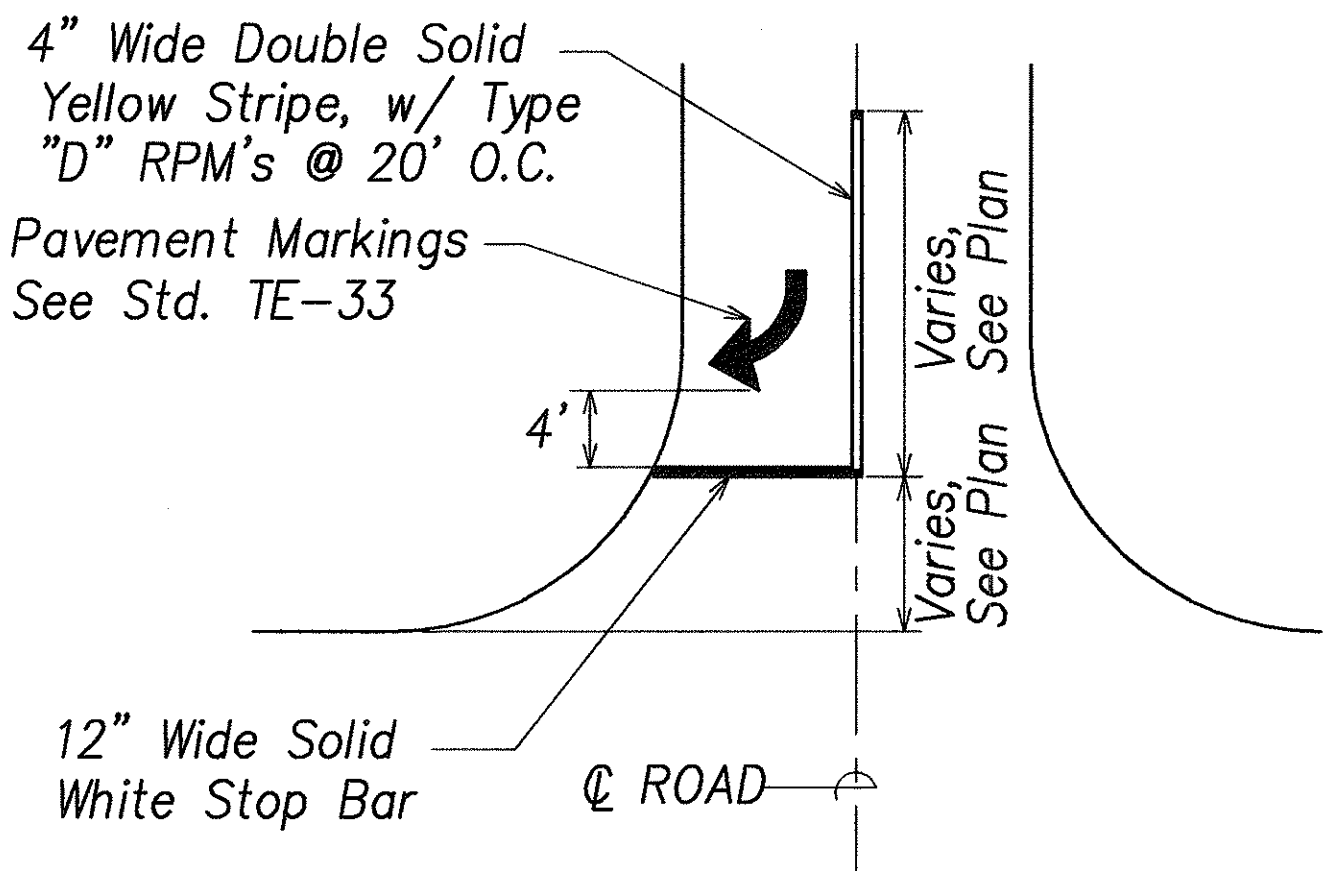
TYPICAL CROSSWALK STRIPING  
AT CURB RAMP



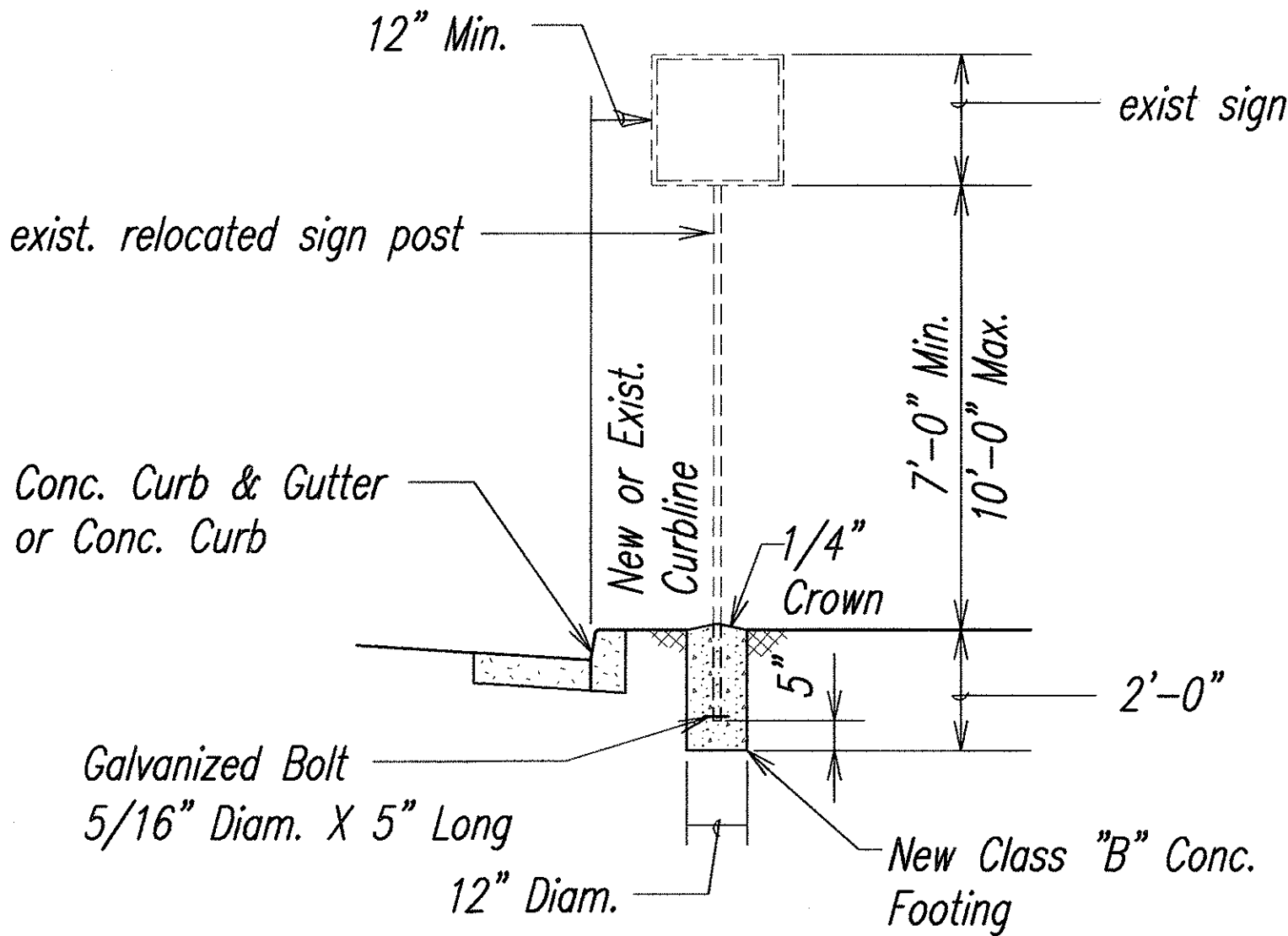
TYPICAL CROSSWALK STRIPING  
AT DIAGONAL CURB RAMP



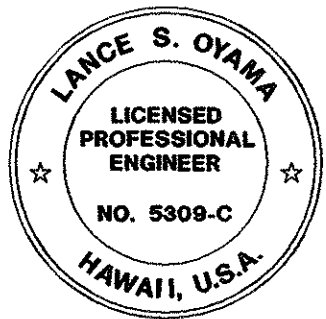
MINOR ROAD STRIPING  
PAVEMENT WORD  
NOT TO SCALE



MINOR ROAD STRIPING  
PAVEMENT ARROW  
NOT TO SCALE



TYPICAL SIGN RELOCATION DETAIL  
Not to scale



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.  
*Lance S. Oyama*  
SIGNATURE DATE APRIL 30, 2006  
"OBSERVATION OF CONSTRUCTION" IS DEFINED IN CHAPTER 10-115, HAWAII ADMINISTRATIVE RULES ENTITLED "PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS AND LANDSCAPE ARCHITECTS".

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

STRIPING DETAILS

Pedestrian Facilities & ADA Compliance  
at Various Locations on Oahu, Unit 6  
Fed. Aid Proj. No. CMAQ-0300(97)

Scale: As Shown Date: JULY 19, 2004

SHEET No. C-29 OF 122 SHEETS

ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
NO.	

DATE REVISION