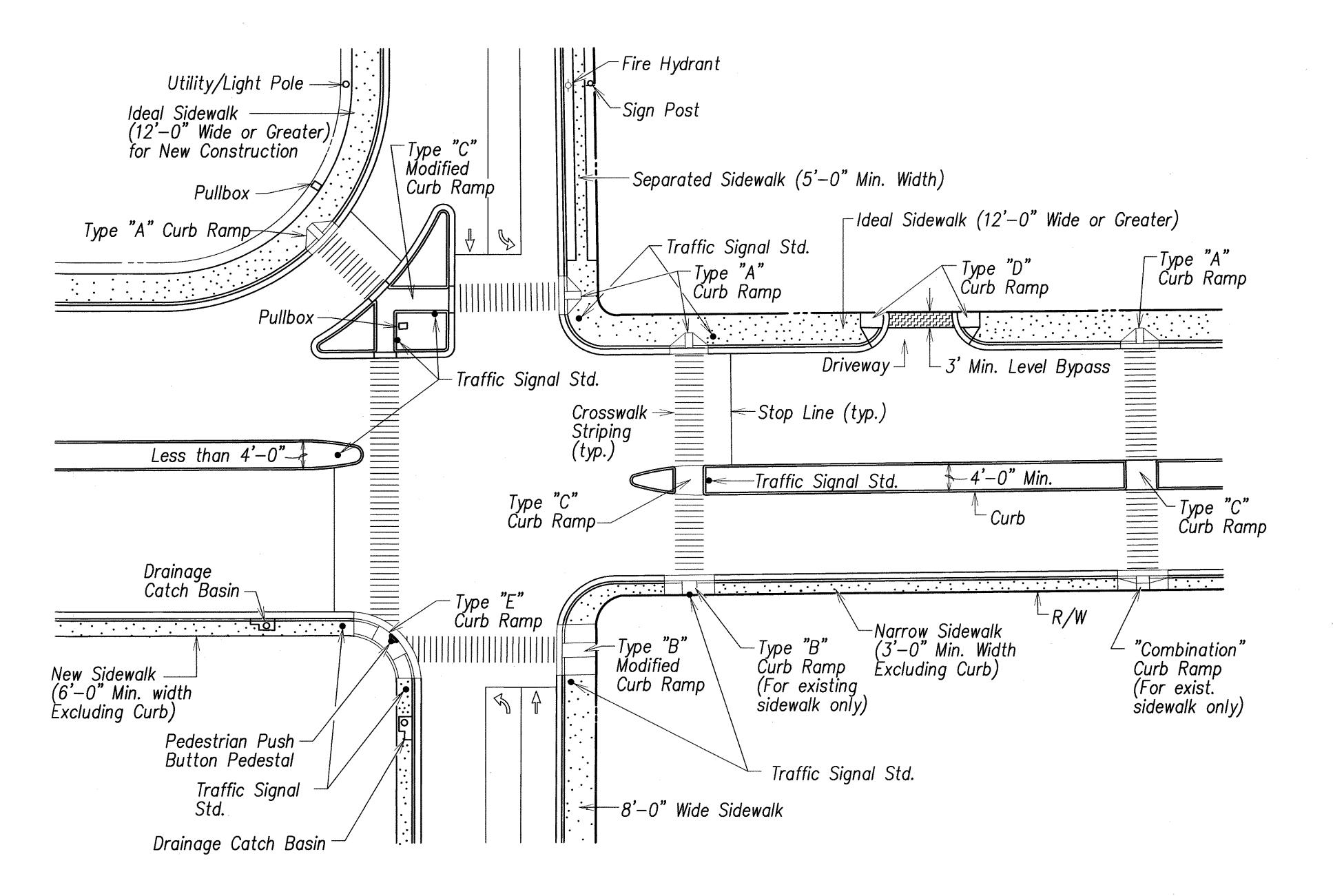
FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CMAQ-0300(92)	2004	18	187



TYPICAL CURB RAMPS

A Tyco Infrastructure Services Company

841 Bishop Street, Suite 500
Honolulu, Hi 96813

LICENSED
PROFESSIONAL
ENGINEER
No. 6198—C

APPRATION DATE OF THE LICENSE 4/30/2006
THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

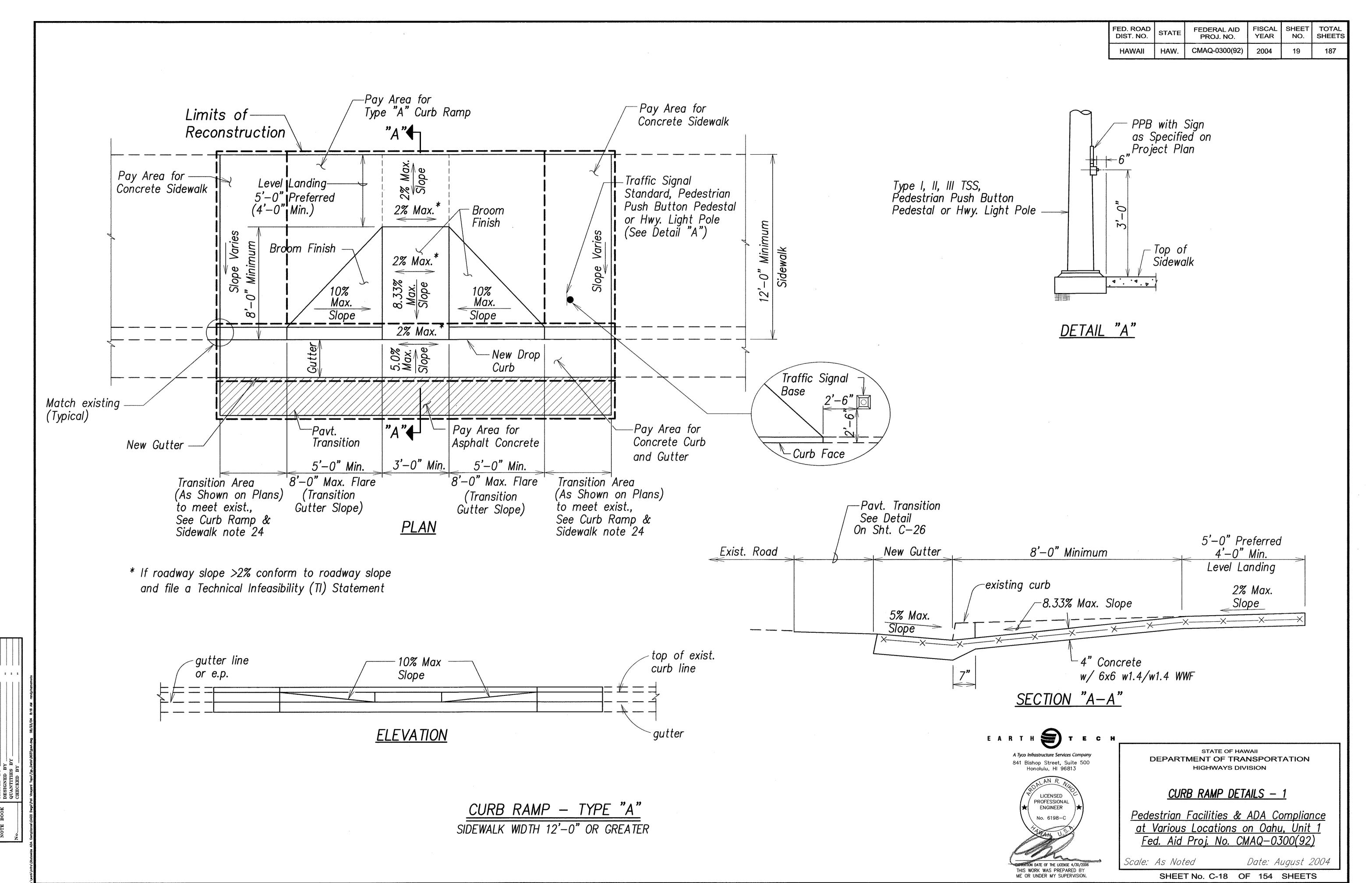
#### TYPICAL CURB RAMP LAYOUT

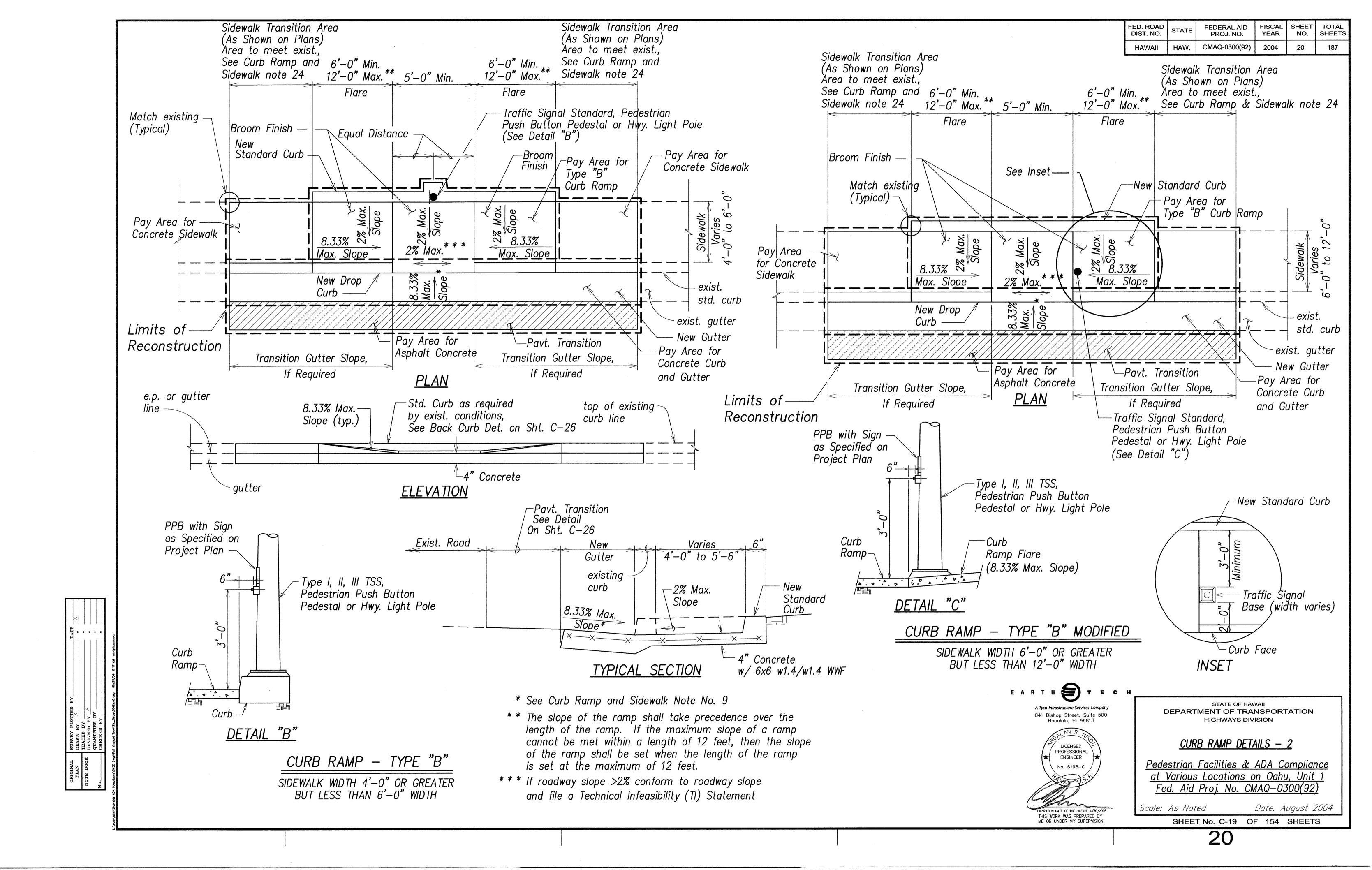
Pedestrian Facilities & ADA Compliance at Various Locations on Oahu, Unit 1
Fed. Aid Proj. No. CMAQ-0300(92)

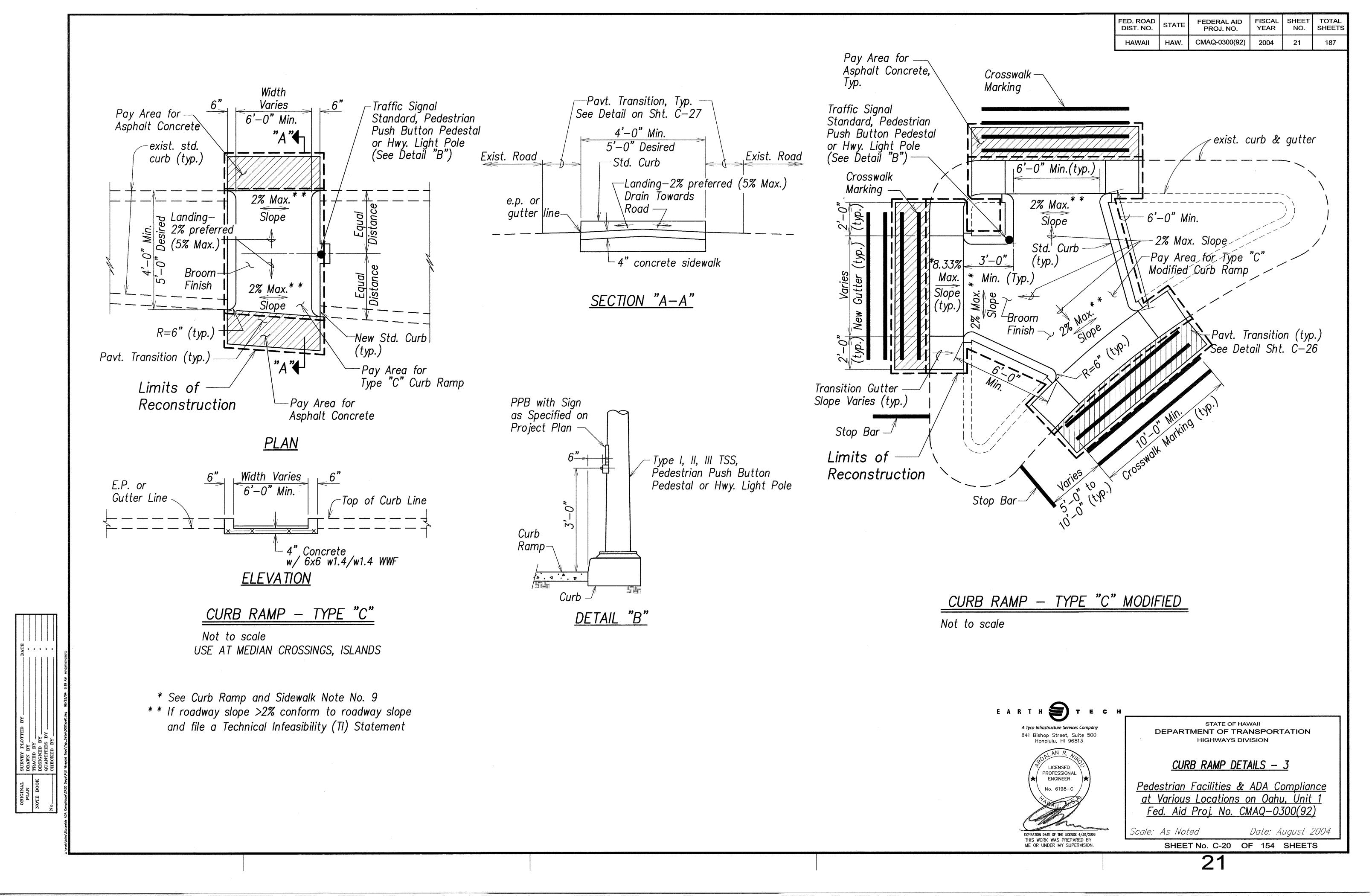
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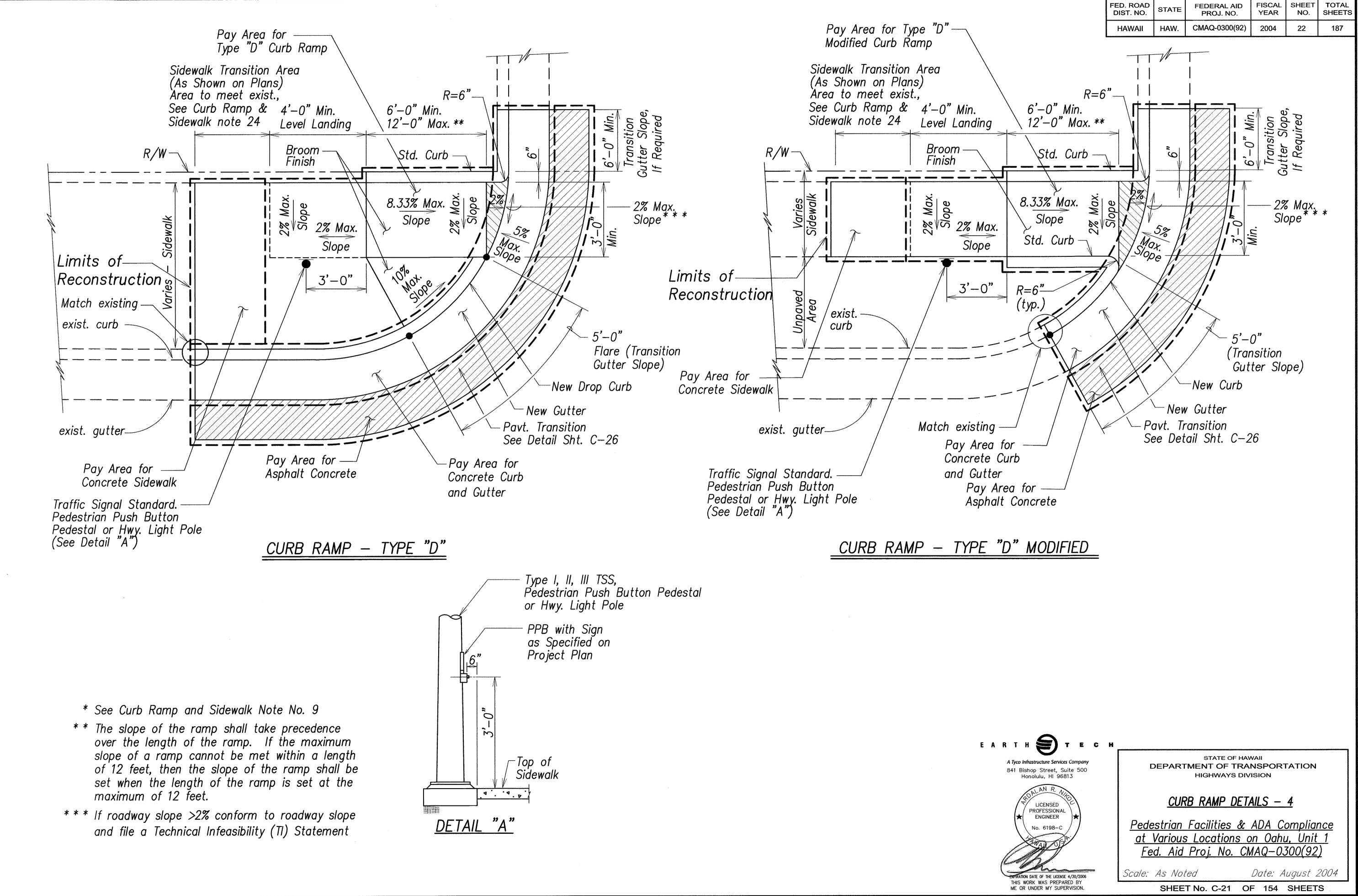
Date: August 2004

SHEET No. C-17 OF 154 SHEETS



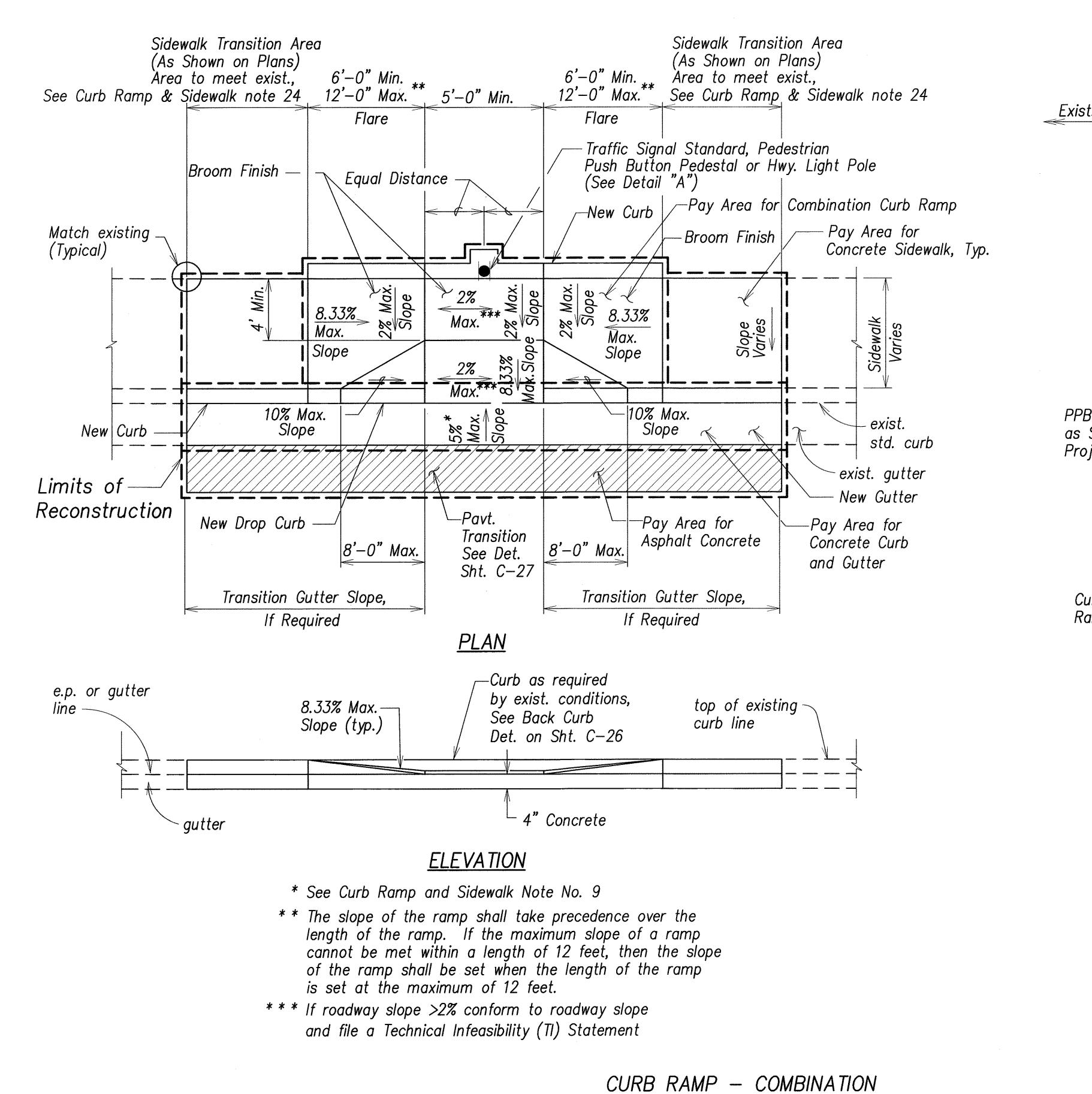




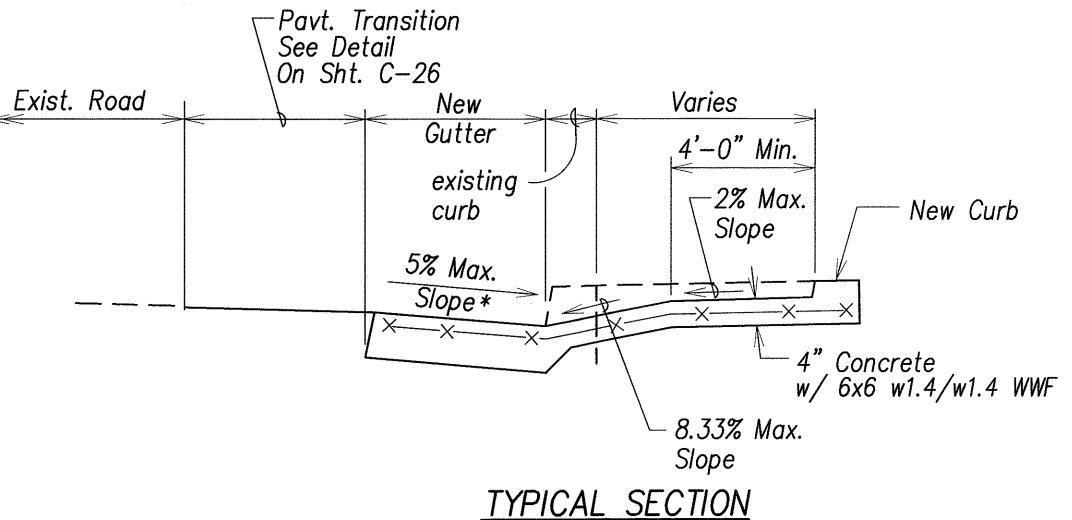


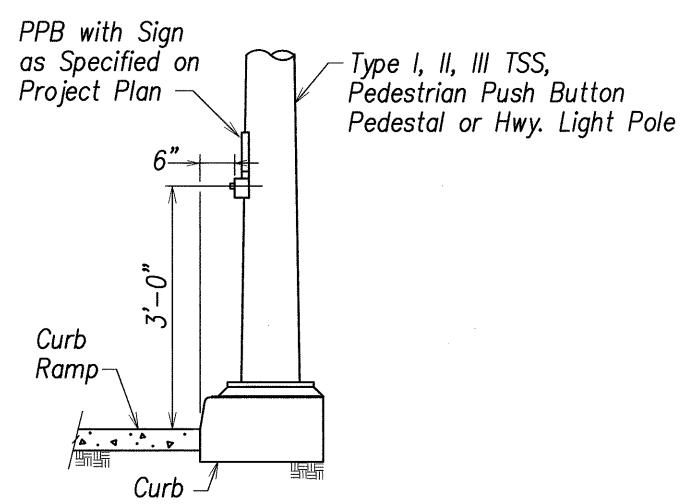
ORIGINAL SURVEY PLOTTED E
PLAN DRAWN BY
NOTE BOOK DESIGNED BY
QUANTITIES BY
CHECKED BY

22



FED. ROAD DIST. NO. FISCAL SHEET TOTAL YEAR NO. SHEETS FEDERAL AID PROJ. NO. CMAQ-0300(92) 2004 23 HAWAII





DETAIL "A"



STATE OF HAWAII **DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION** 

#### CURB RAMP DETAILS - 5

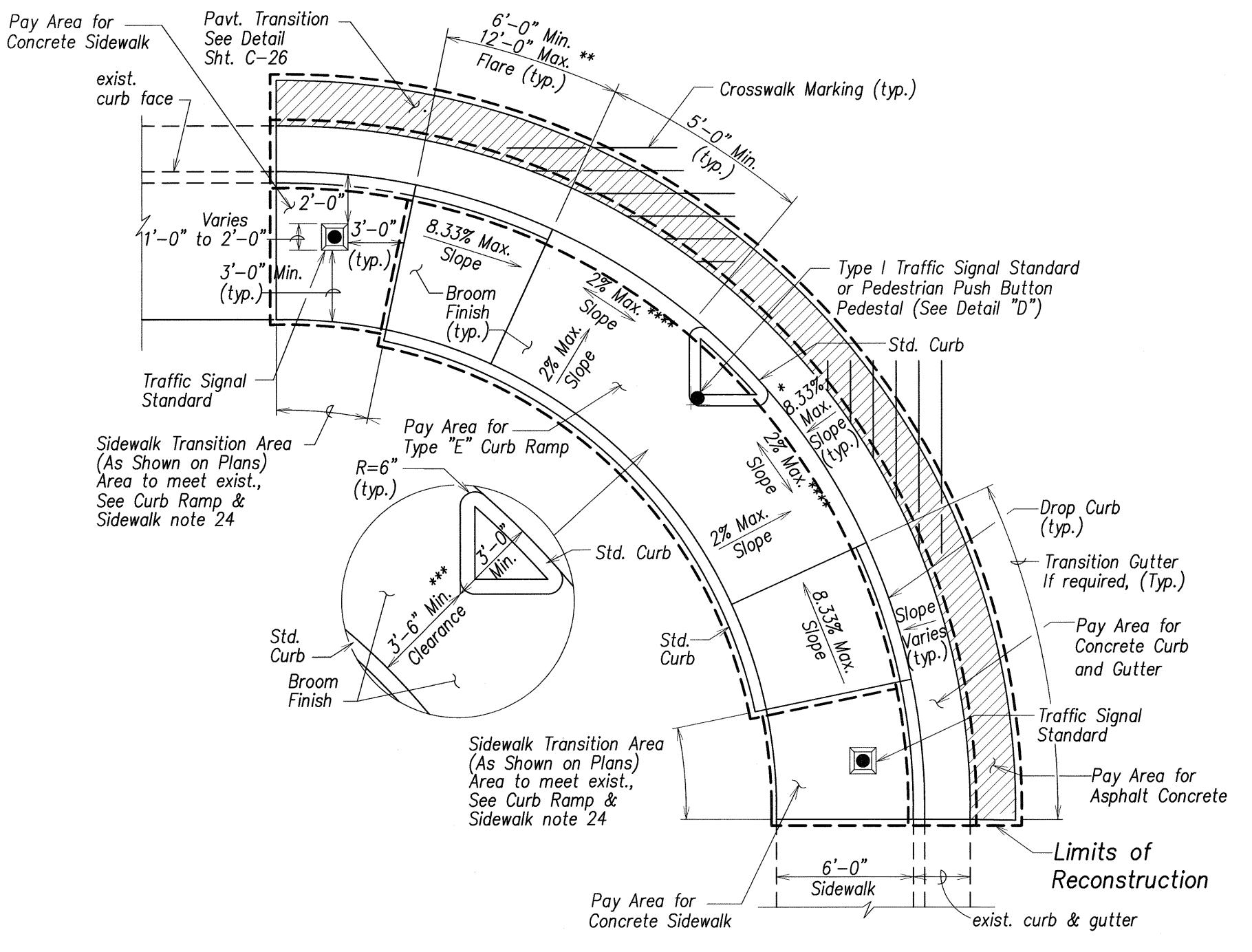
Pedestrian Facilities & ADA Compliance at Various Locations on Oahu, Unit 1 Fed. Aid Proj. No. CMAQ-0300(92)

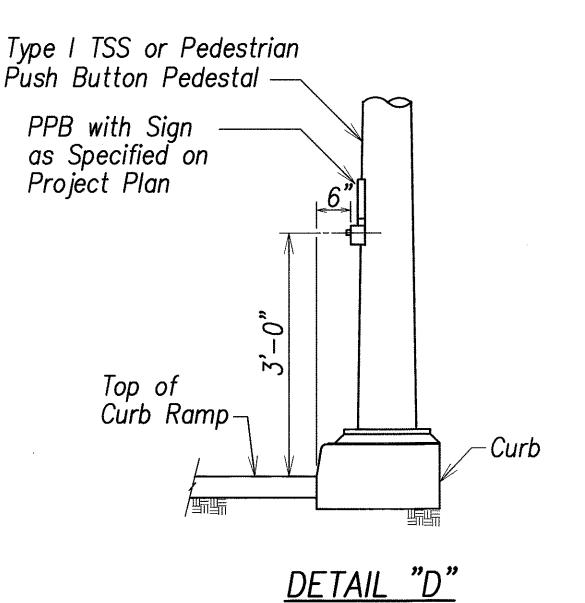
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SHEET No. C-22 OF 154 SHEETS

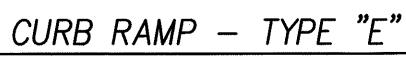
Date: August 2004

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	CMAQ-0300(92)	2004	24	187





- \* See Curb Ramp and Sidewalk Note No. 9 Sht. C-6
- \* \* 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 is >2% conform to roadway slope and file Technical Infeasibility (TI) Statement.



SIDEWALK WIDTH 7'-0" OR GREATER

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



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

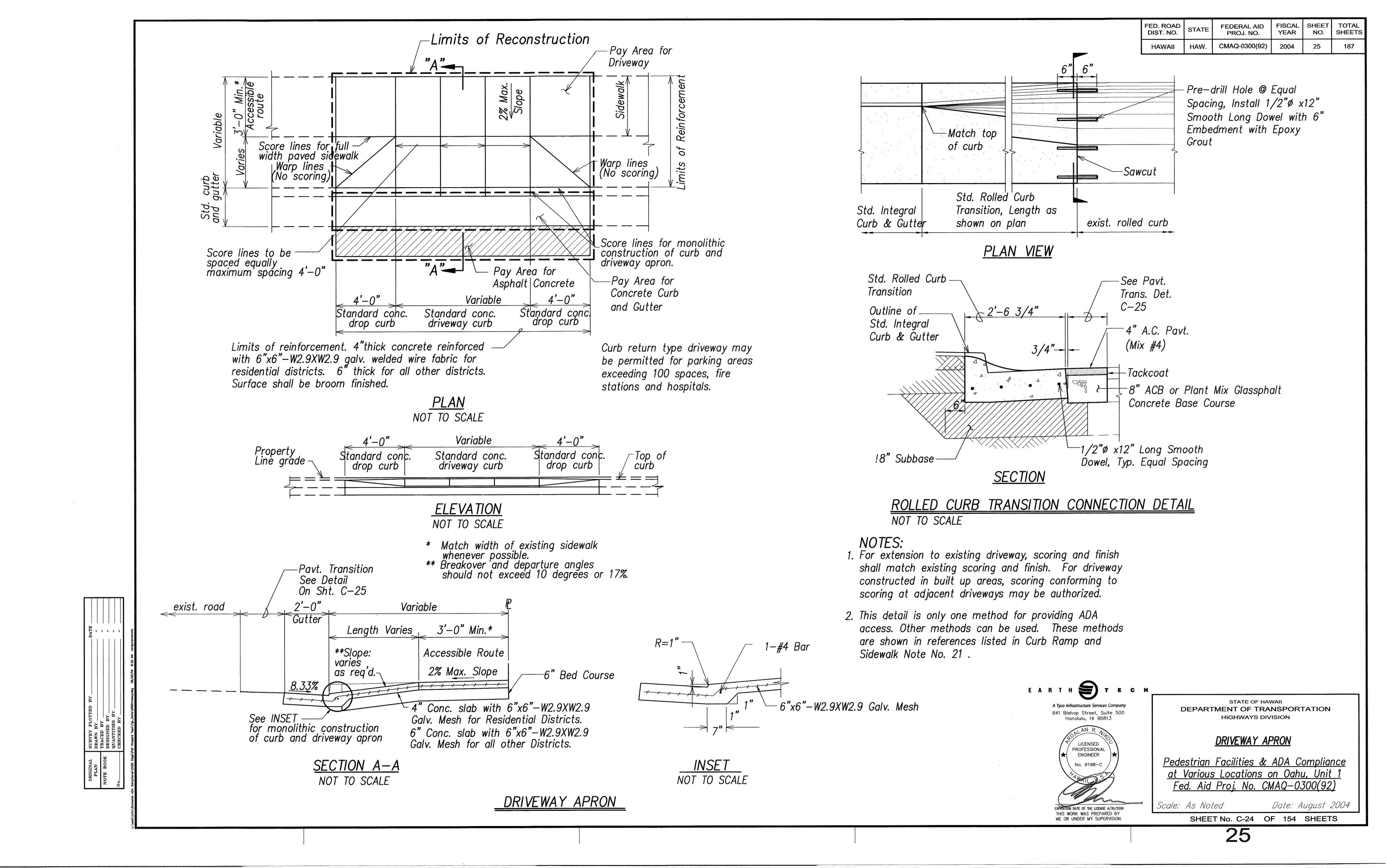
CURB RAMP DETAILS — 6

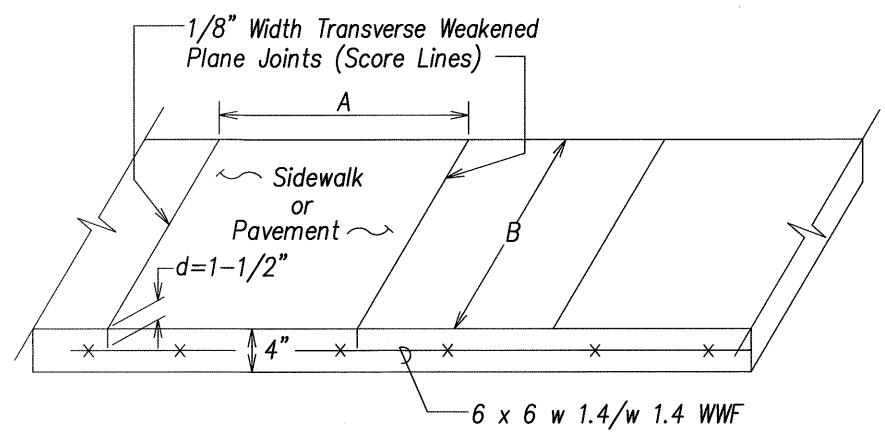
Pedestrian Facilities & ADA Compliance
at Various Locations on Oahu, Unit 1
Fed. Aid Proj. No. CMAQ-0300(92)

Scale: As Noted

Date: August 2004

SHEET No. C-23 OF 154 SHEETS

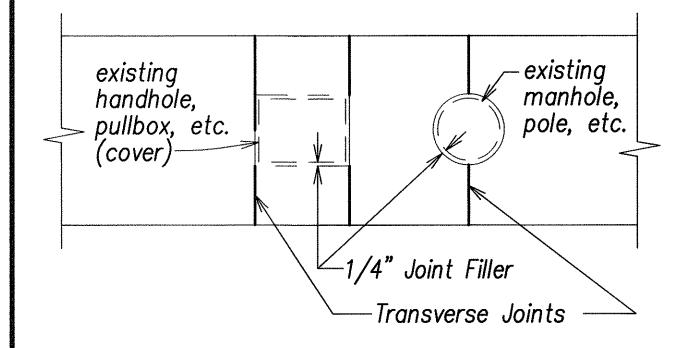




Note: A = 6' if  $B \leq 8'$ . If B > 8', Add Longitudinal Joint

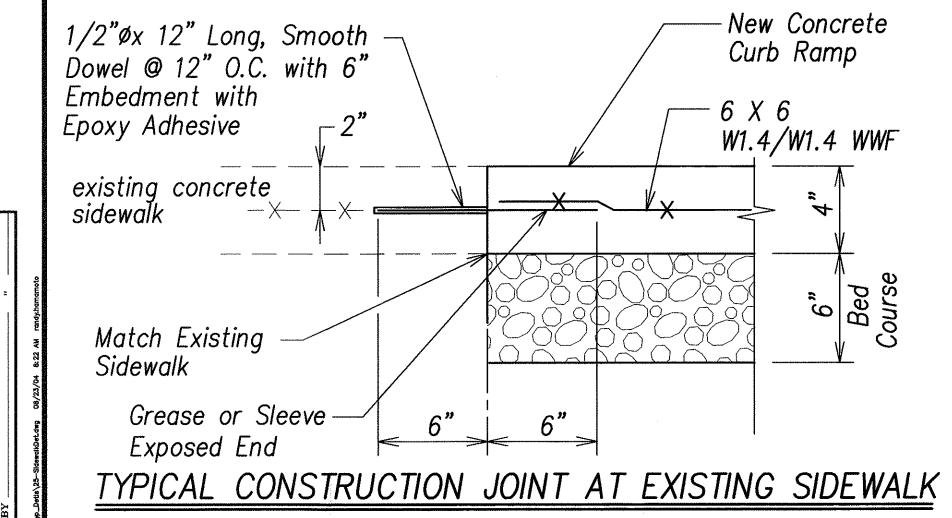
### SIDEWALK SCORE LINE DETAIL

Not to scale

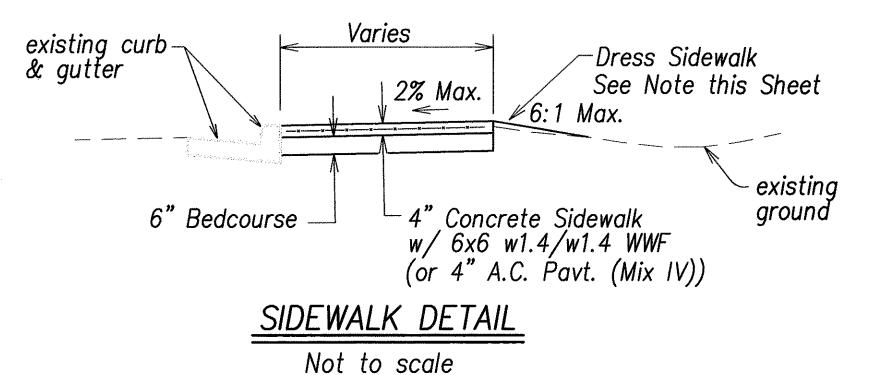


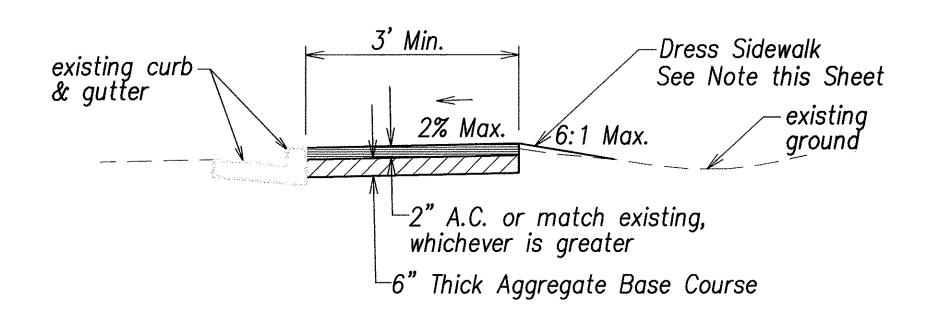
## SIDEWALK ISOLATION JOINT DETAIL

Not to scale

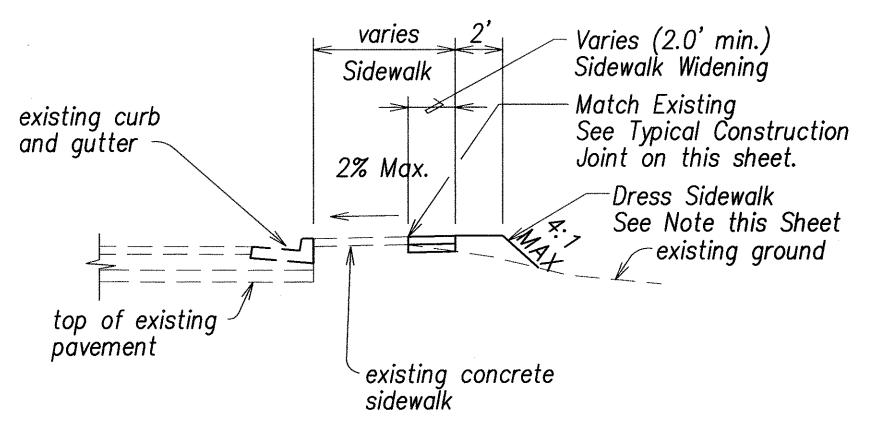


Not to scale





### A.C. SIDEWALK DETAIL Not to scale



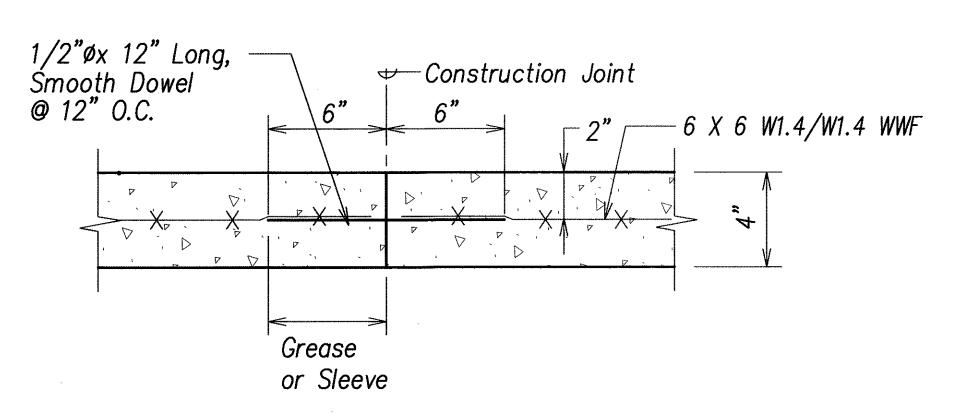
# SIDEWALK WIDENING SECTION

Not to scale

#### NOTES:

- 1. 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.
- 2. Transverse and Longitudinal Weakened Plane Joints for sidewalk shall be considered incidental to the New Sidewalk.
- 3. Installation of dowels and tie bars including drilling, and epoxy grout shall be incidental to Sidewalk.

FEDERAL AID PROJ. NO. FED. ROAD FISCAL SHEET TOTAL DIST. NO. YEAR NO. SHEETS CMAQ-0300(92) 2004 HAW. 26



### TRANSVERSE CONSTRUCTION JOINT DETAIL

Not to scale



STATE OF HAWAII **DEPARTMENT OF TRANSPORTATION** HIGHWAYS DIVISION

#### SIDEWALK DETAILS

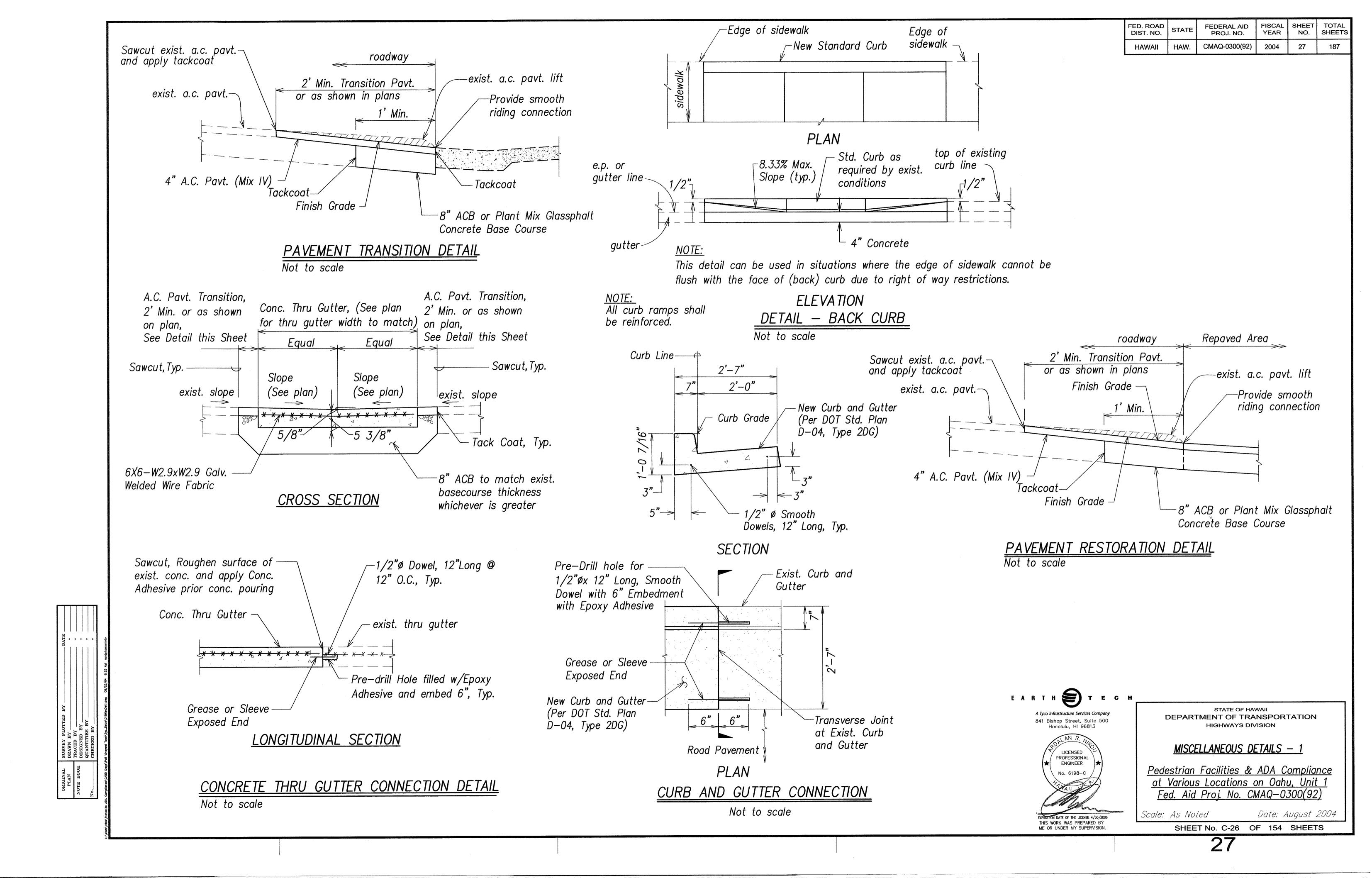
Pedestrian Facilities & ADA Compliance at Various Locations on Oahu, Unit 1 Fed. Aid Proj. No. CMAQ-0300(92)

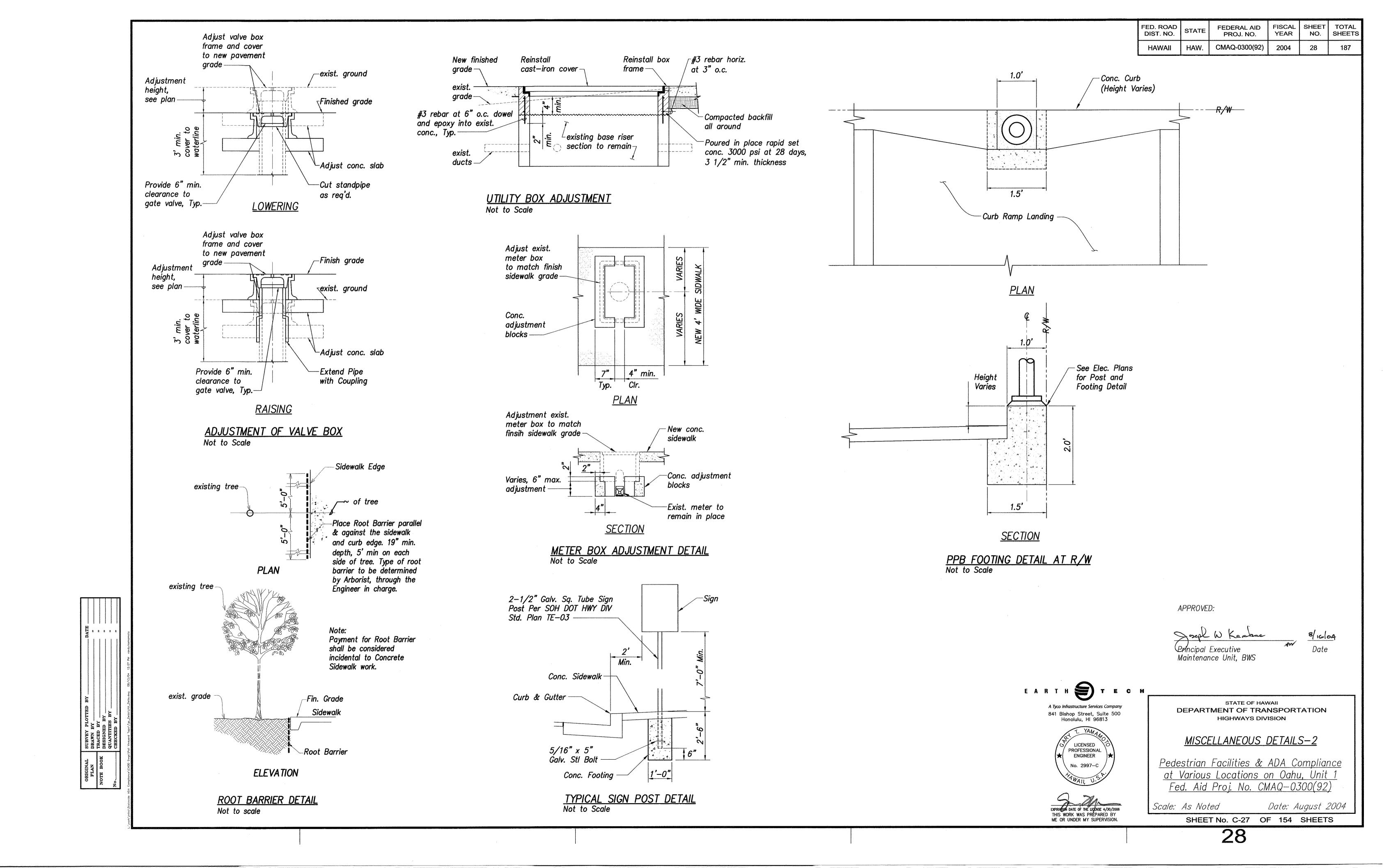
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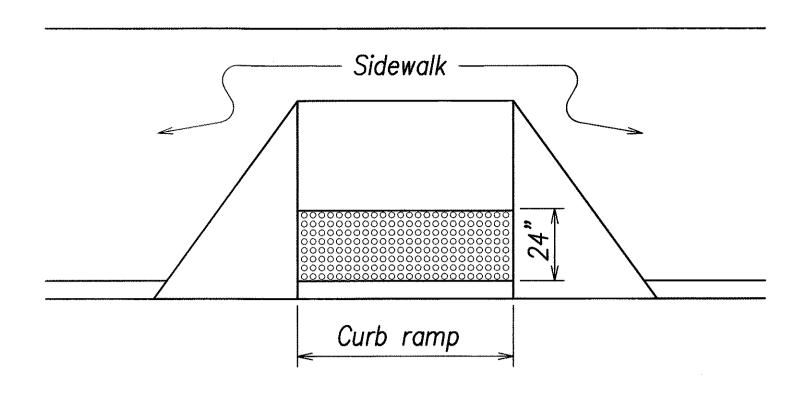
SHEET No. C-25 OF 154 SHEETS

Date: August 2004

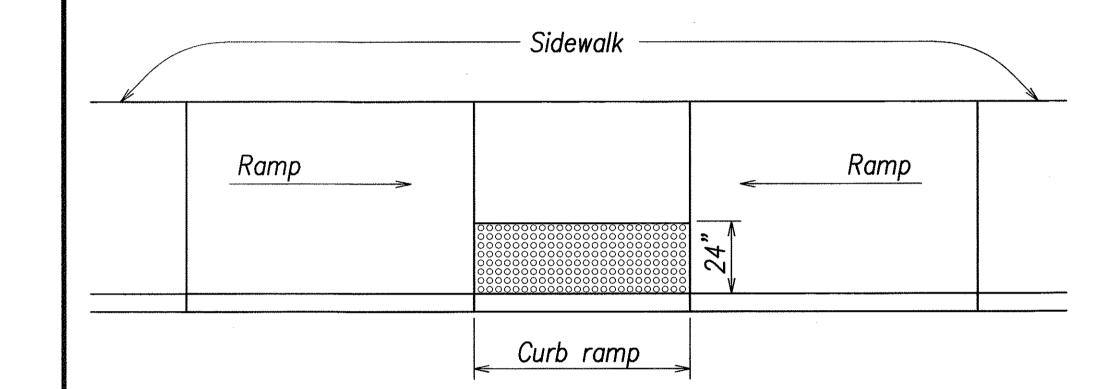
26



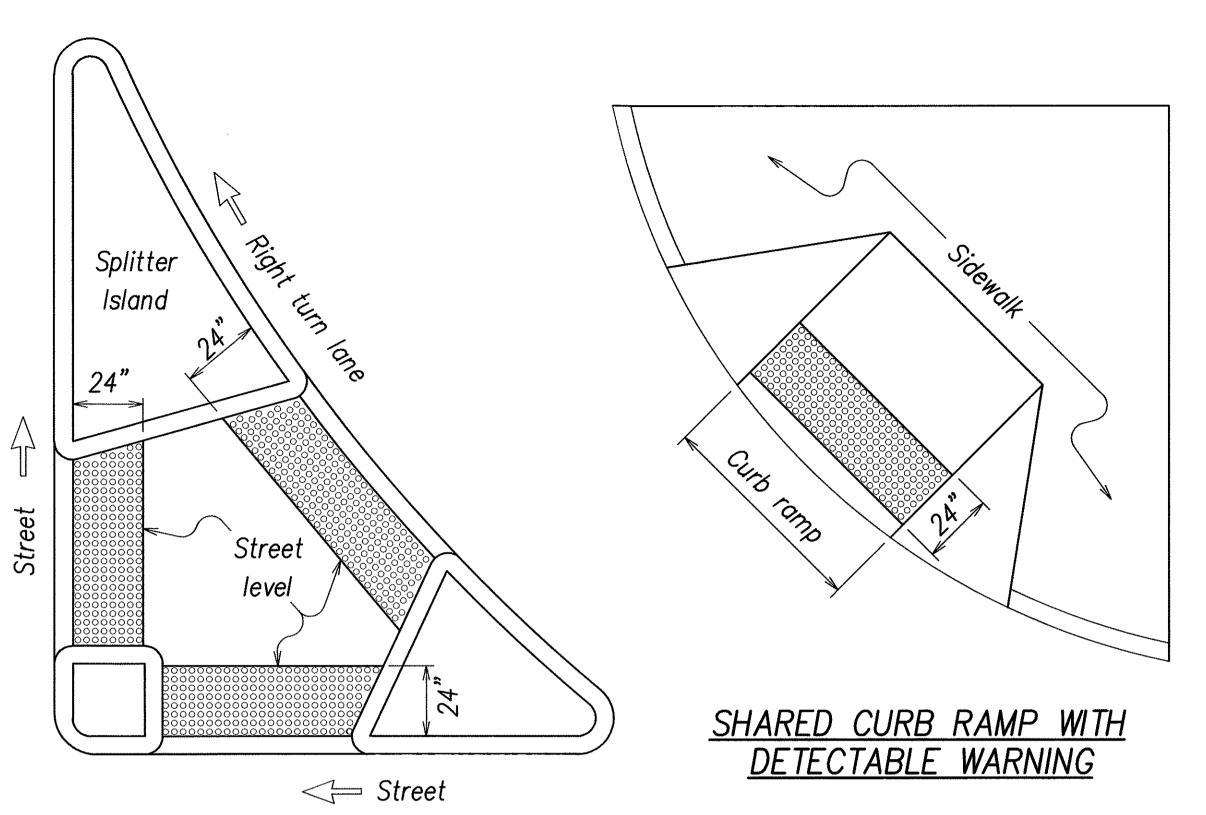




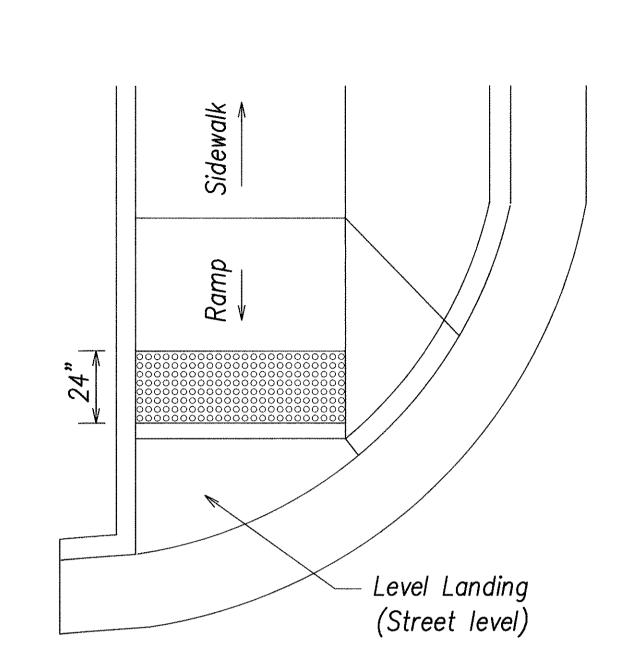
### DETECTABLE WARNING AT CURB RAMP



TRANSITION RAMP WITH DETECTABLE WARNING



<u>REFUGE ISLAND WITH</u> <u>DETECTABLE WARNING</u>



FED. ROAD DIST. NO. FISCAL YEAR

2004

FEDERAL AID PROJ. NO.

CMAQ-0300(92)

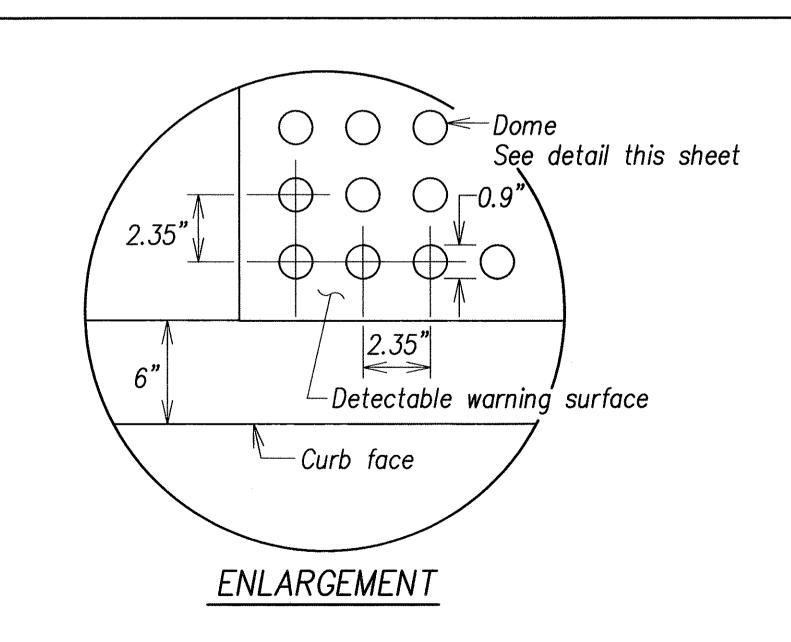
END OF SIDEWALK CURB RAMP WITH DETECTABLE WARNING

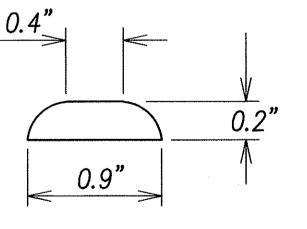
## TYPICAL INSTALLATION OF DETECTABLE WARNINGS

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.





DOME SECTION



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

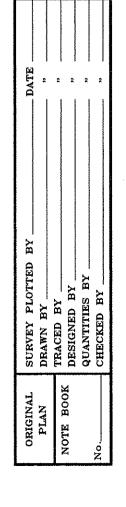
#### DETECTABLE WARNING DETAILS

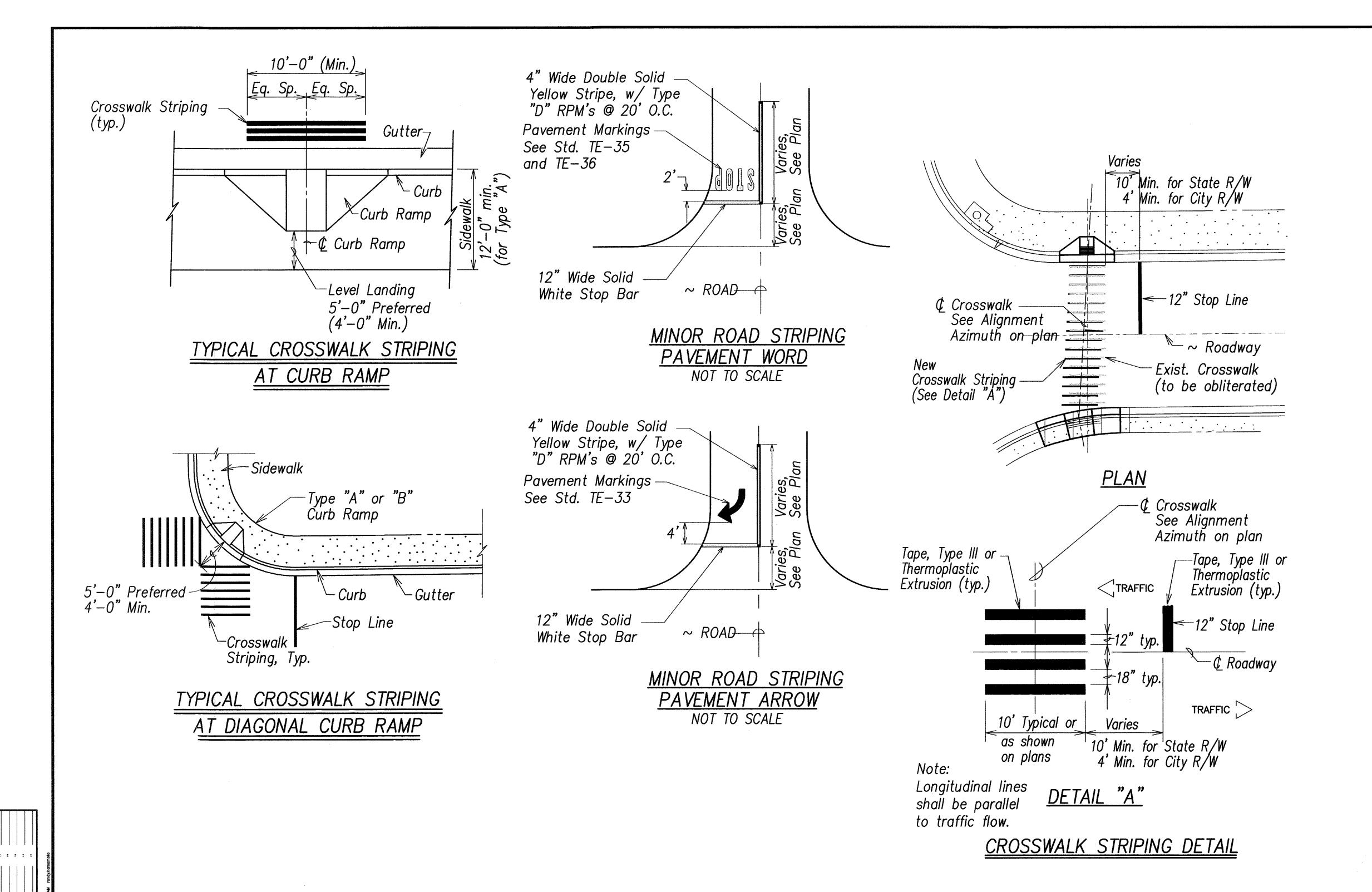
<u>Pedestrian Facilities & ADA Compliance</u> <u>at Various Locations on Oahu, Unit 1</u> <u>Fed. Aid Proj. No. CMAQ-0300(92)</u>

Scale: As Noted

Date: August 2004

SHEET No. C-28 OF 154 SHEETS







STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

FISCAL YEAR

2004

FEDERAL AID PROJ. NO.

CMAQ-0300(92)

SHEET NO.

30

FED. ROAD DIST. NO.

#### STRIPING DETAILS

Pedestrian Facilities & ADA Compliance at Various Locations on Oahu, Unit 1
Fed. Aid Proj. No. CMAQ-0300(92)

Scale: As Noted

SHEET No. C-29 OF 154 SHEETS

Date: August 2004