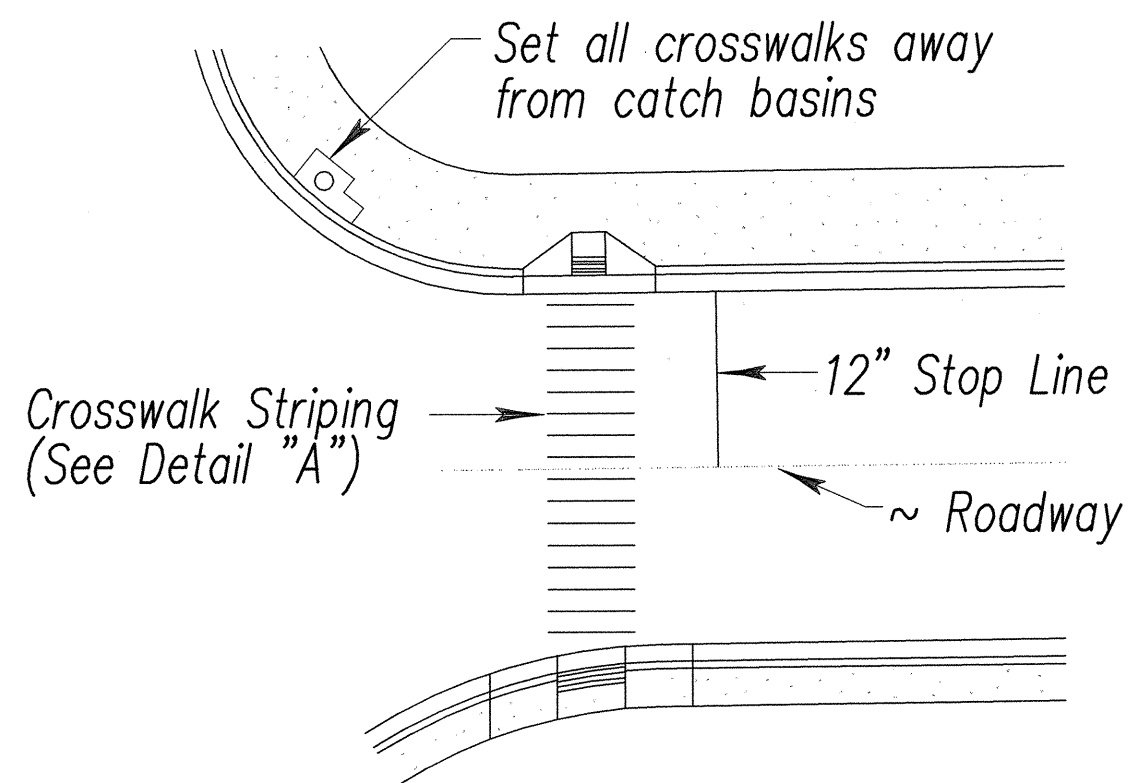
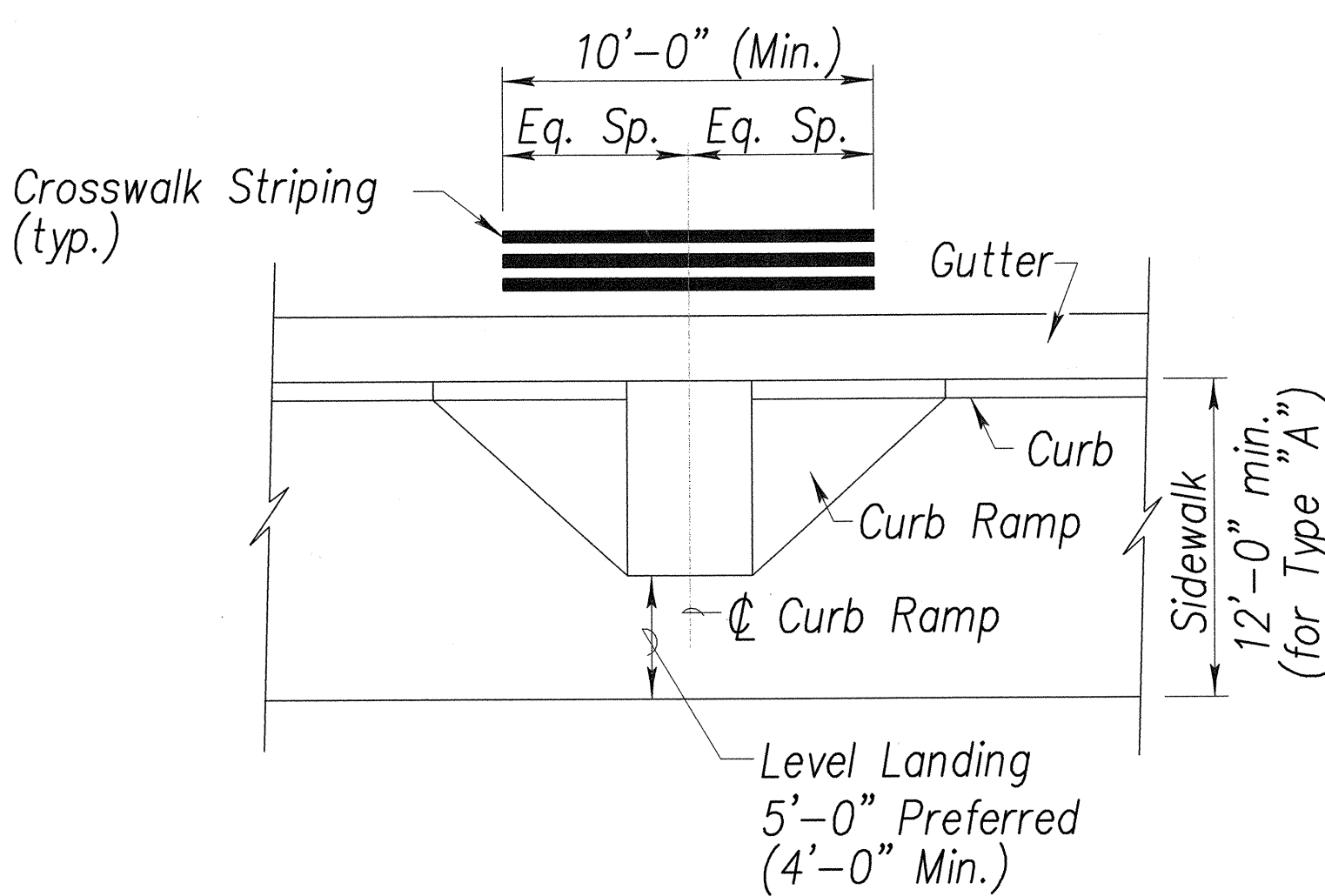


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	36AB-02-04M	2005	35	48

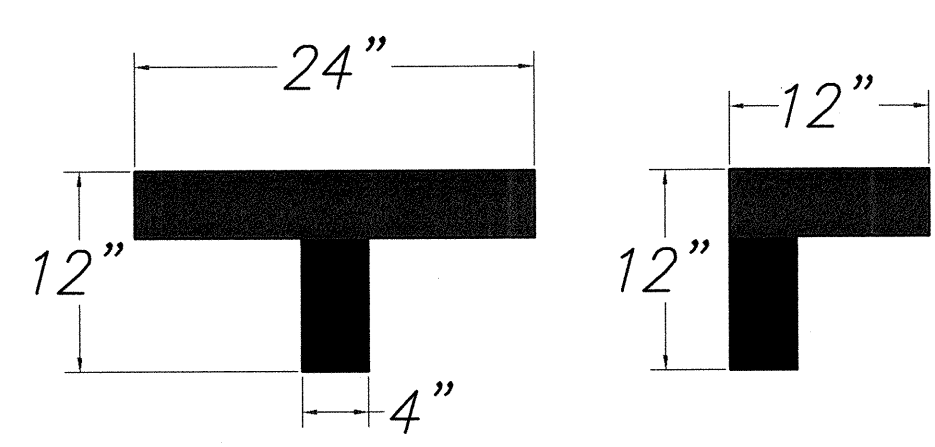


PLAN



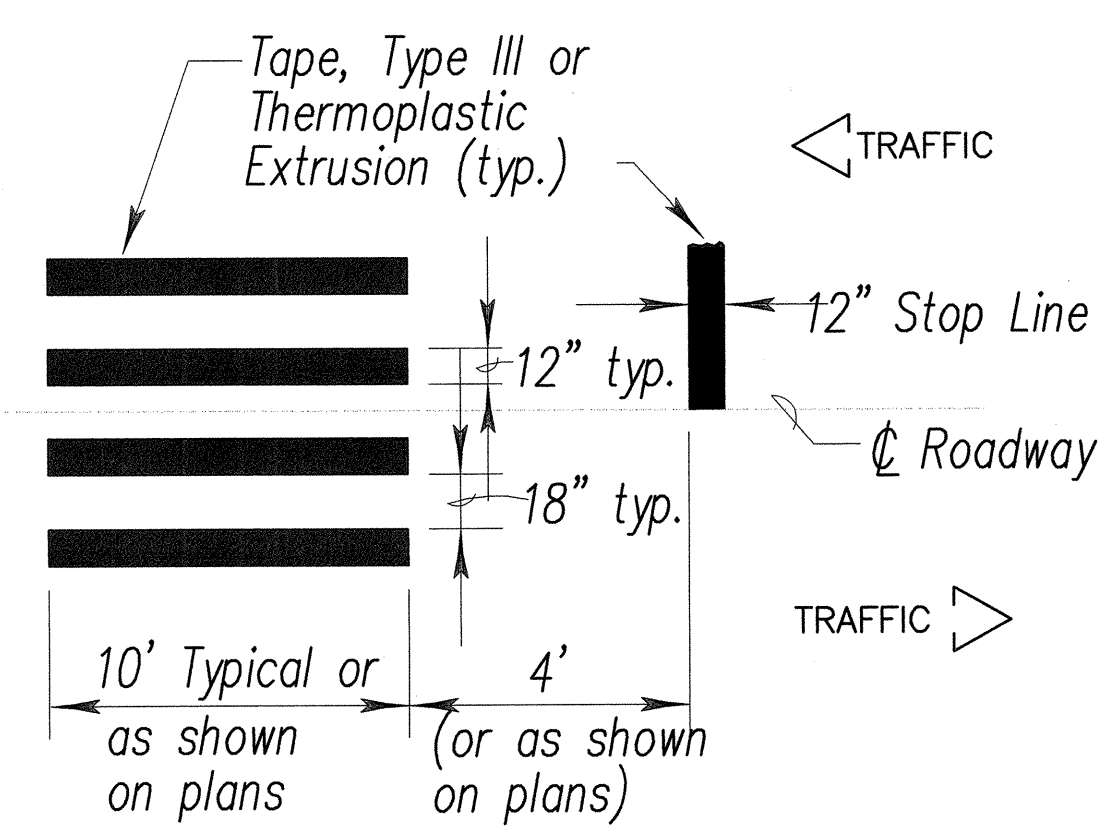
TYPICAL CROSSWALK STRIPING AT CURB RAMP

NOT TO SCALE



PARKING TEE DETAIL

NOT TO SCALE

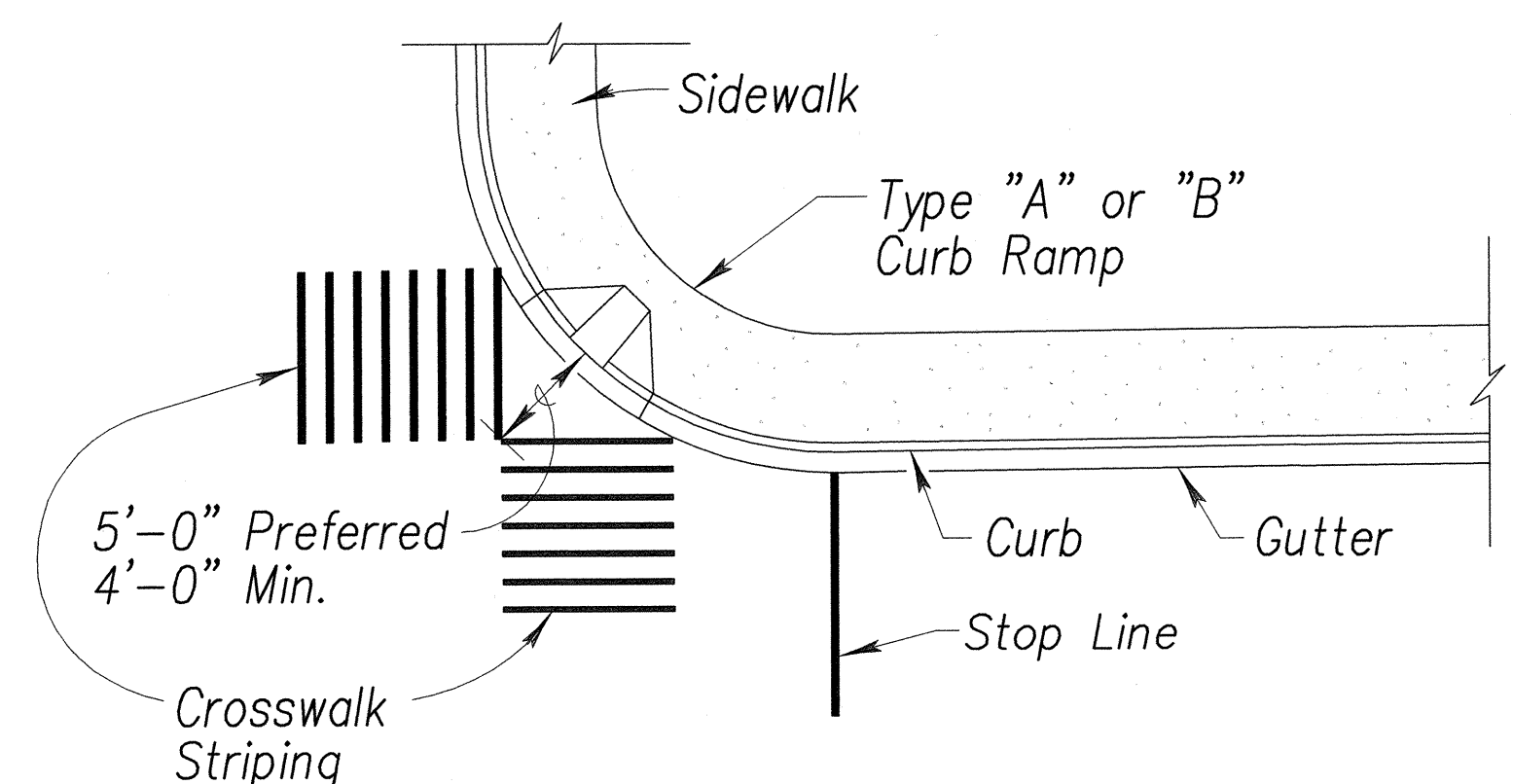


DETAIL "A"

CROSSWALK STRIPING DETAIL

NOT TO SCALE

NOTE:
Longitudinal lines shall be parallel to traffic flow.



TYPICAL CROSSWALK STRIPING AT DIAGONAL CURB RAMP

NOT TO SCALE

NEAL S. FUKUHITO
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No. 6186-C
HAWAII U.S.A.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**PAVEMENT MARKINGS, LEGEND
DETAILS & NOTES**

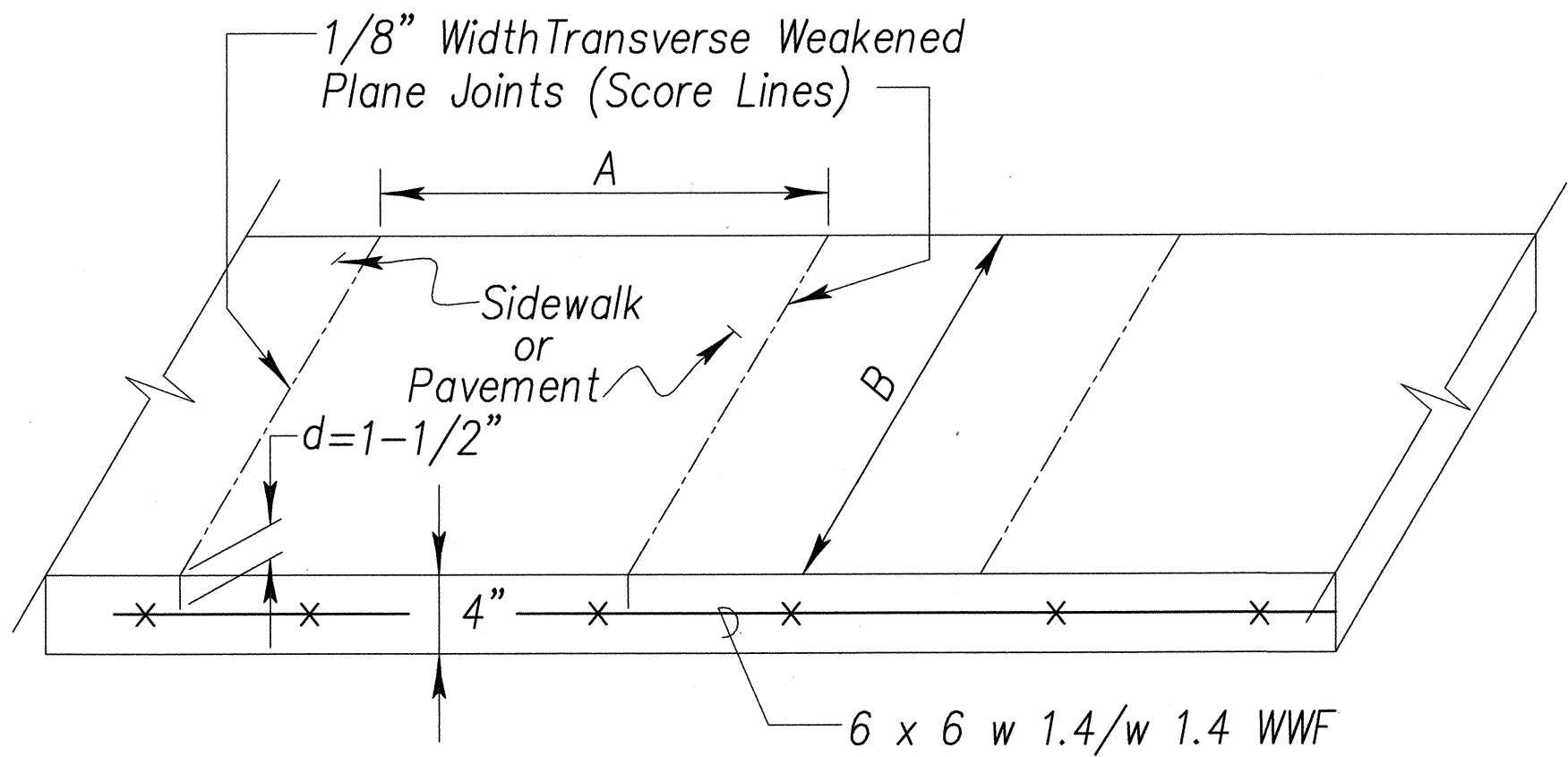
ROUTE 36, HANA HIGHWAY RESURFACING
HALEAKALA HWY TO HOOKIPA PARK
PAIA TOWN SECTION

Project No. 36AB-02-04M
Scale: As Shown Date: MAY 2005

SHEET No. 1 OF 1 SHEETS

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

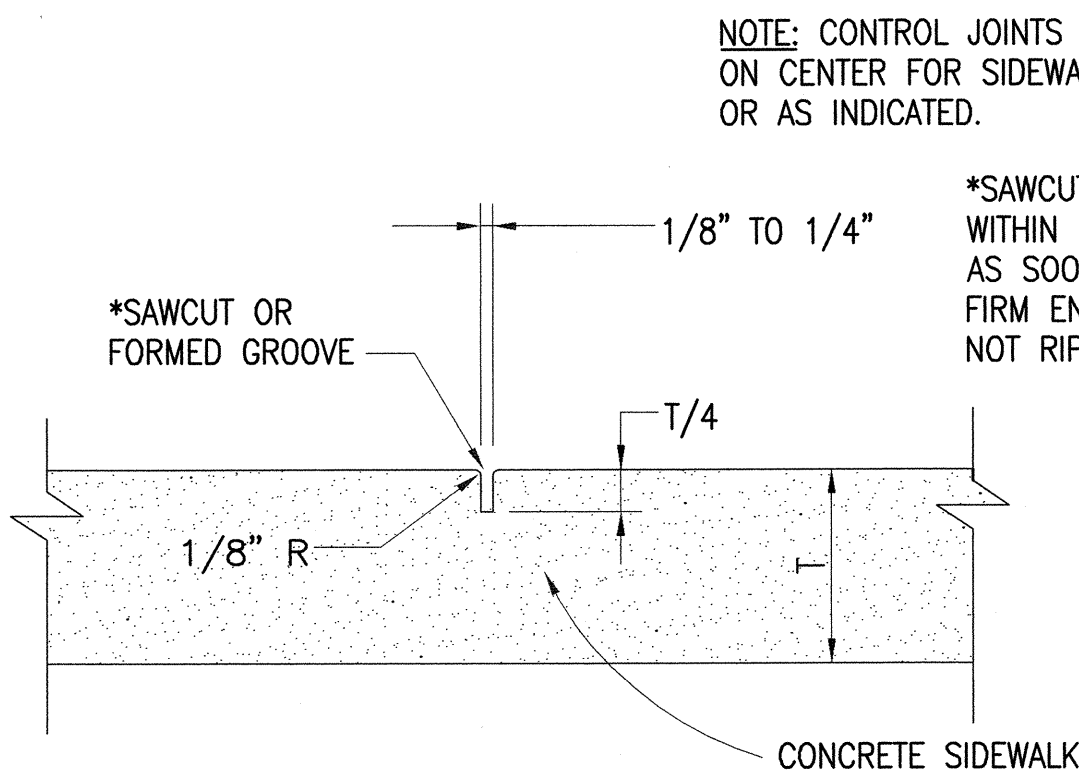
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	36AB-02-04M	2005	36	48



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

SIDEWALK SCORE LINE DETAIL

Not to scale



NOTE: CONTROL JOINTS SHALL BE SPACED 5'-0" ON CENTER FOR SIDEWALKS AND FOR WALKWAYS OR AS INDICATED.

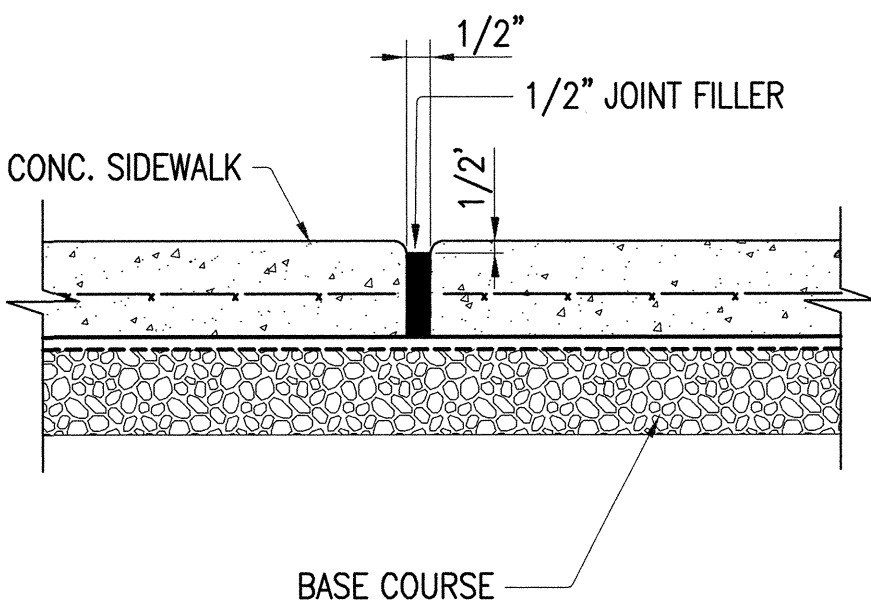
*SAWCUT SHALL BE PERFORMED WITHIN 12 HOURS OF POUR AND AS SOON AS SLAB HAS SET AND IS FIRM ENOUGH THAT SAWBLADE DOES NOT RIP, TEAR OR DAMAGE SLAB.

CONTROL JOINT

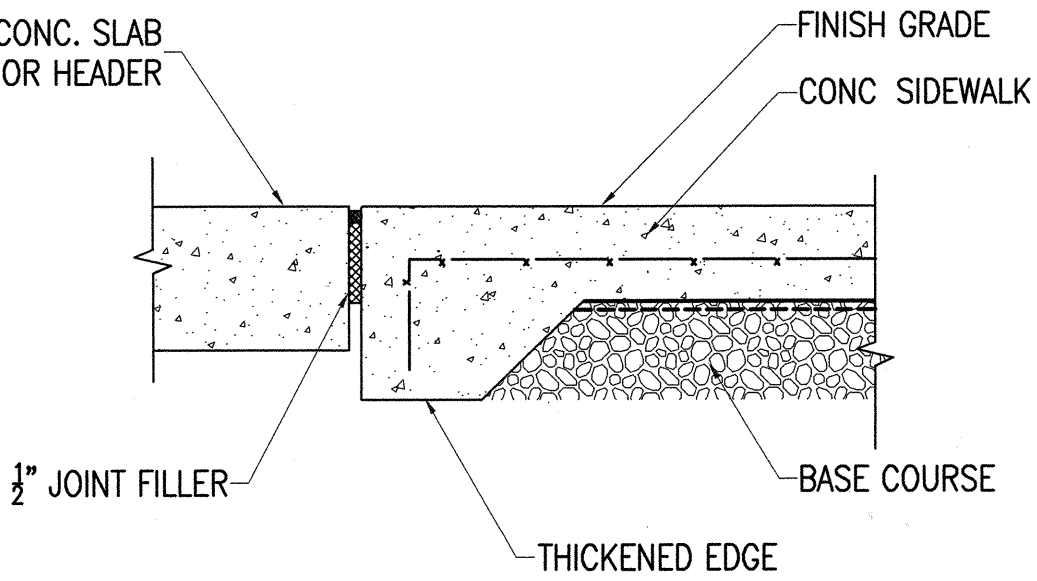
NOT TO SCALE

NOTES:

- EXPANSION JOINTS SHALL BE SPACED A MAXIMUM OF 80'-0" APART.
- EXPANSION JOINTS SHALL BE INSTALLED WHERE CONCRETE ABUTS EXIST. CONCRETE STRUCTURES.



CASE 1



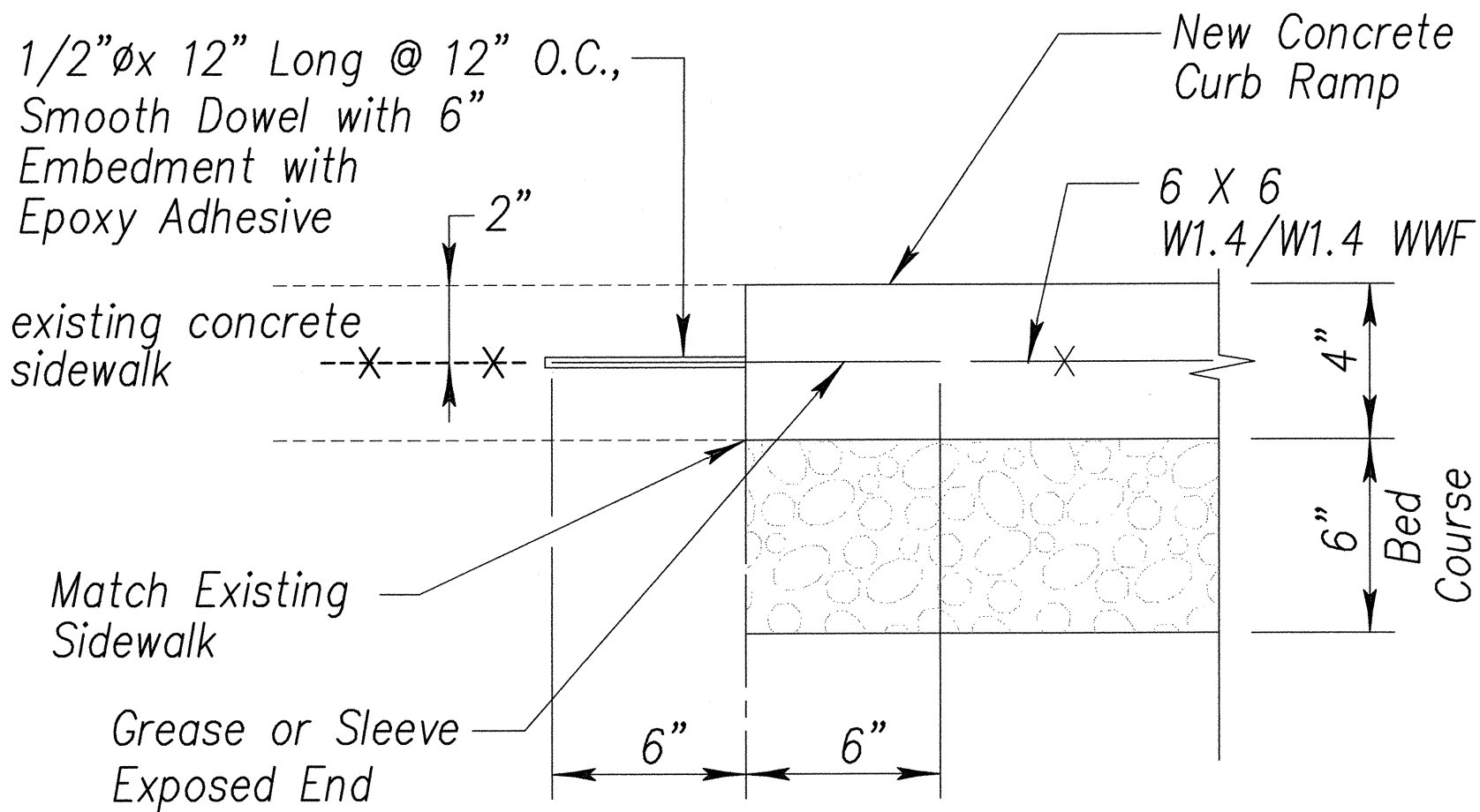
CASE 2

CONCRETE SIDEWALK EXPANSION JOINT

NOT TO SCALE

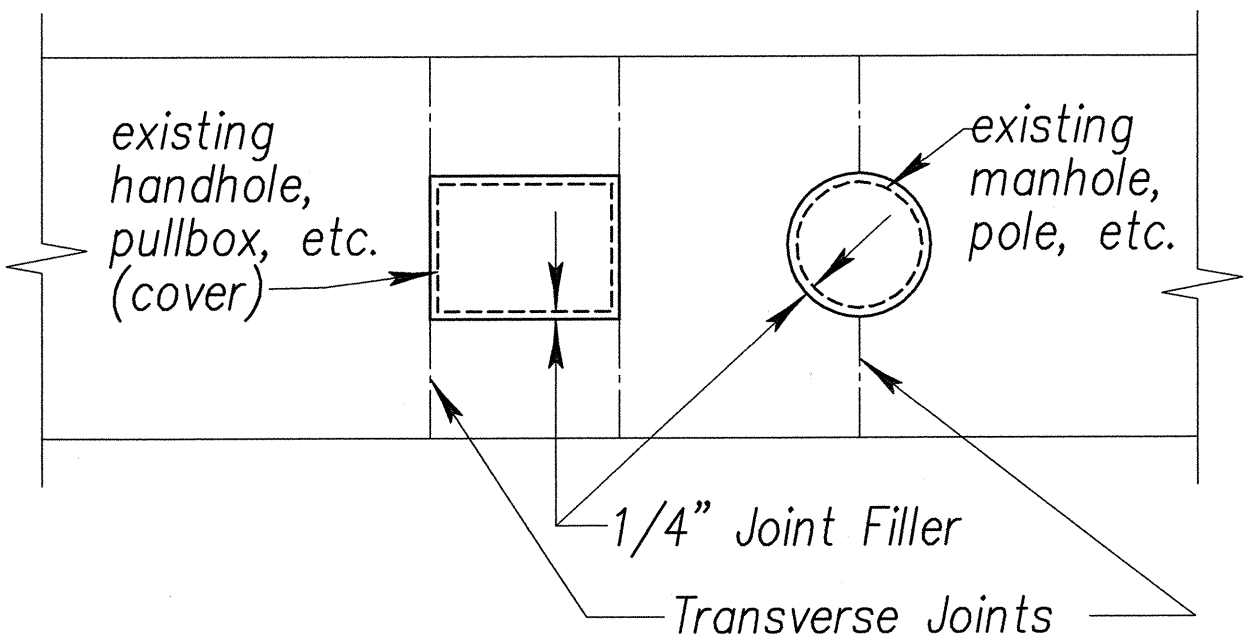
NOTES:

- 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.



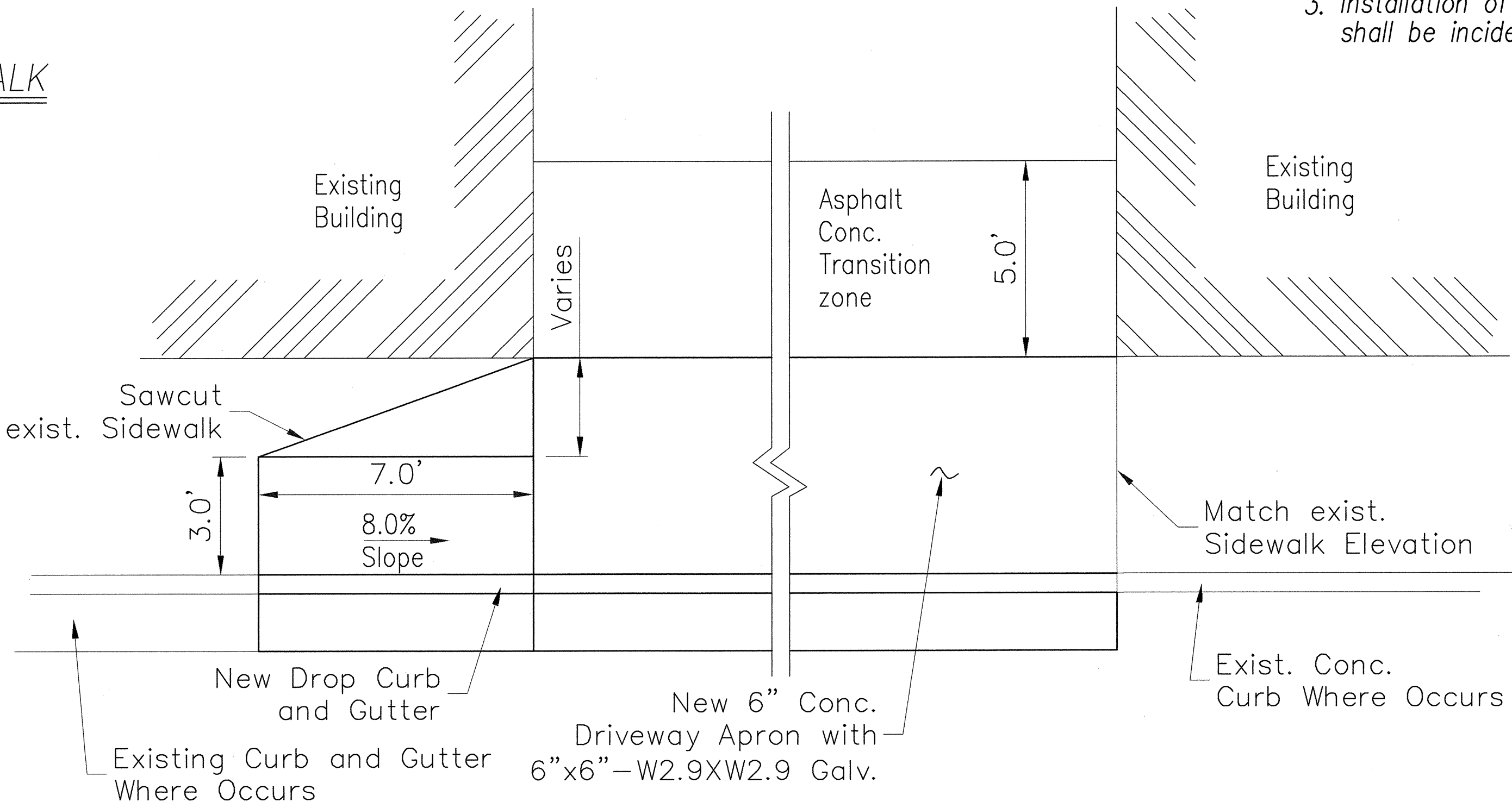
TYPICAL CONSTRUCTION JOINT AT EXISTING SIDEWALK

Not to scale



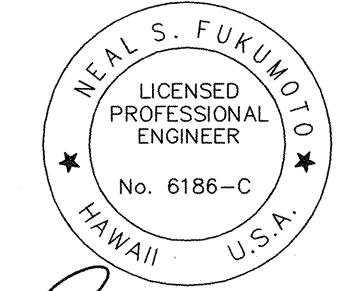
SIDEWALK ISOLATION JOINT DETAIL

Not to scale



SINGLE WING CURB RAMP

Scale 3/8"=1'-0"



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April 30, 2006
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT DETAILS

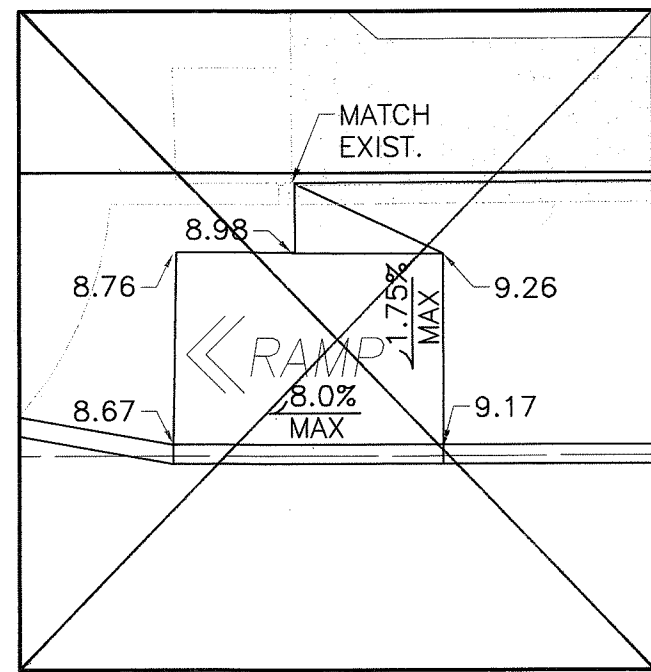
ROUTE 36, HANA HIGHWAY RESURFACING
HALEAKALA HWY TO HOOKIPA PARK
PAIA TOWN SECTION

Project No. 36AB-02-04M
Scale: As Shown Date: MAY 2005

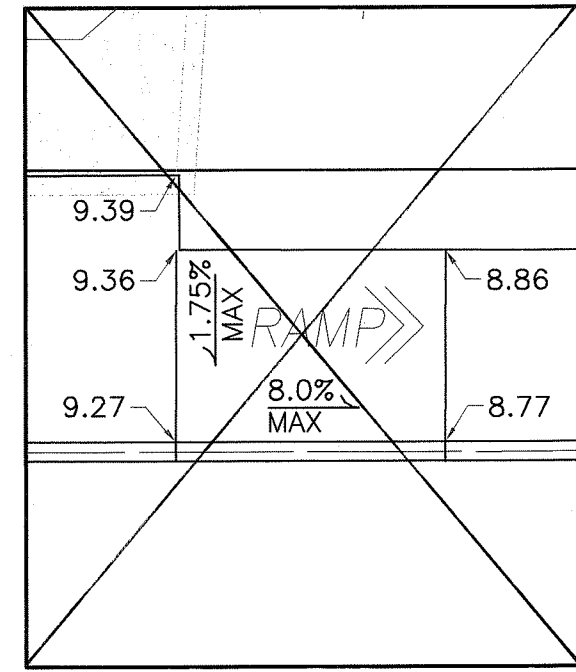
SHEET No. 1 OF 1 SHEETS

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

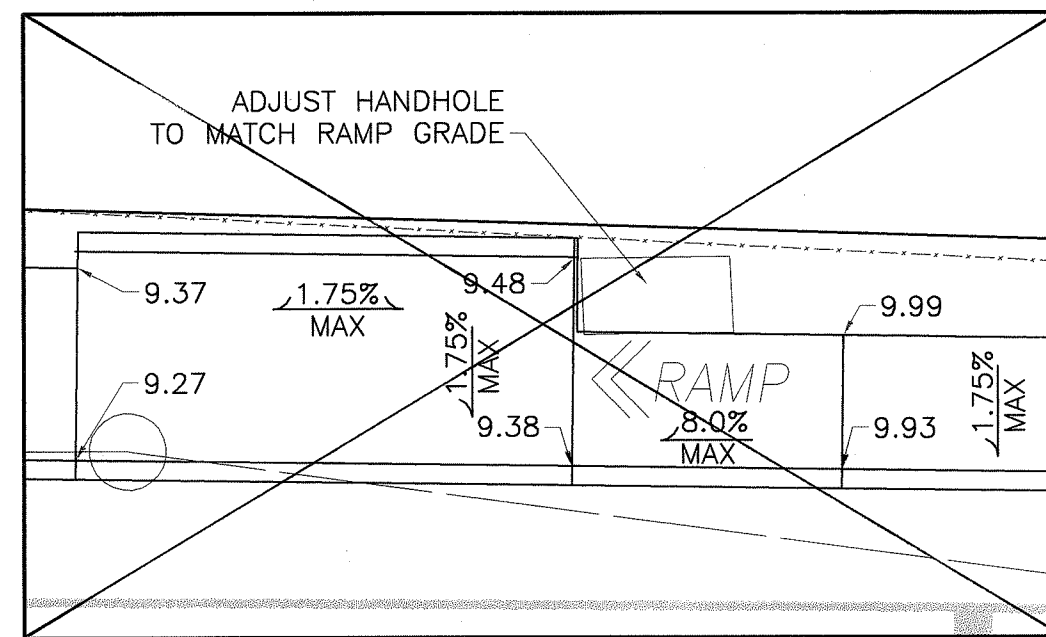
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	36AB-02-04M	2005	37	48



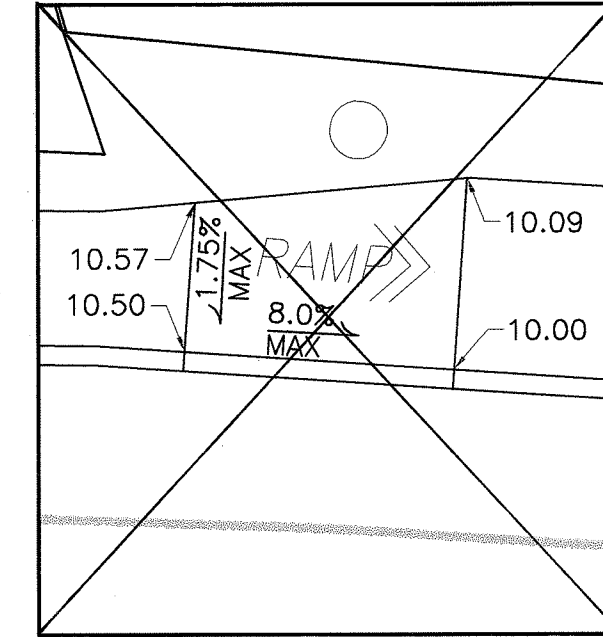
STATION 255+36 LEFT
SCALE: 1"= 5'



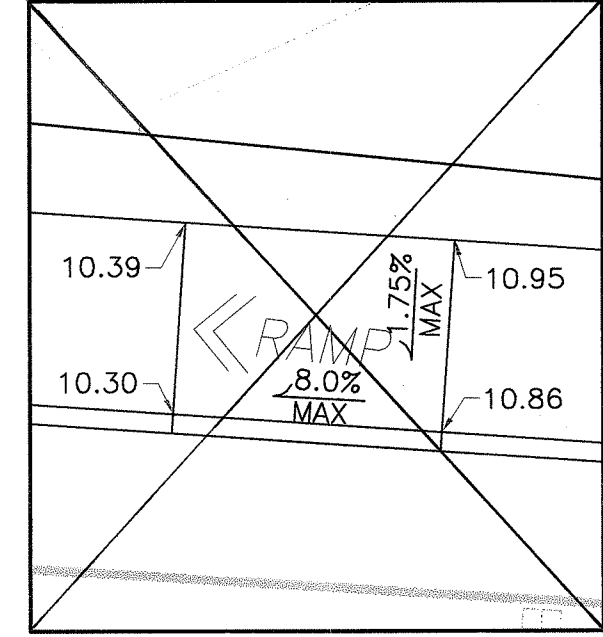
STATION 255+70 LEFT
SCALE: 1"= 5'



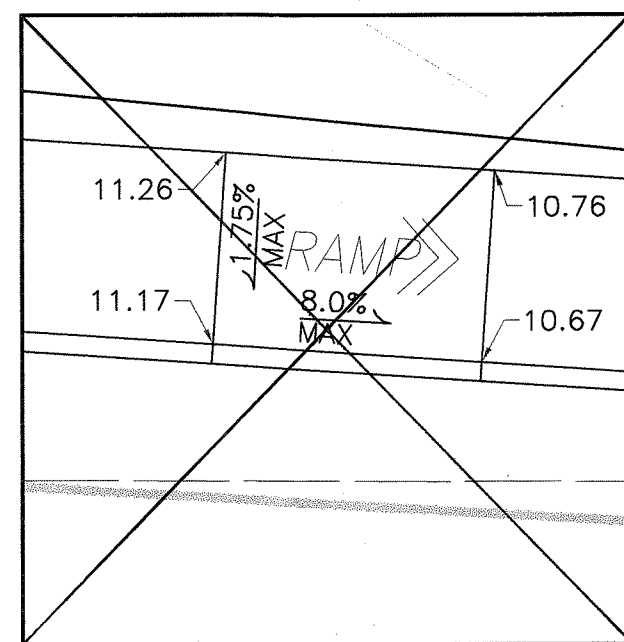
STATION 256+40 LEFT
SCALE: 1"= 5'



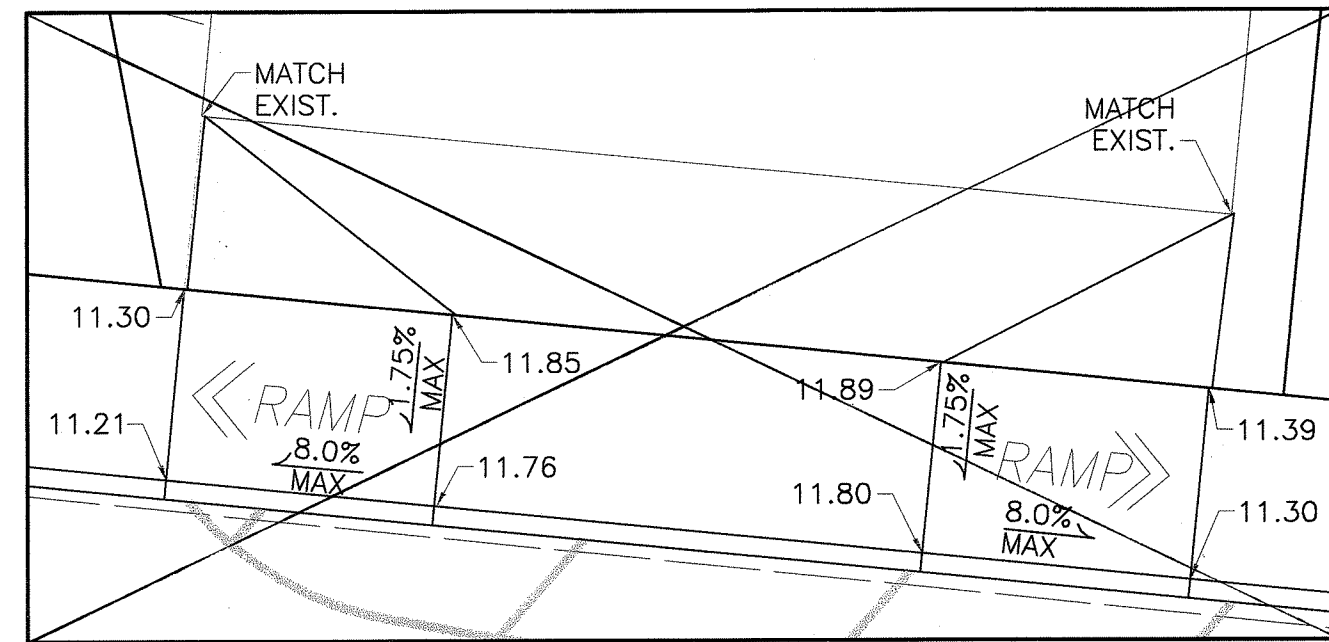
STATION 257+10 LEFT
SCALE: 1"= 5'



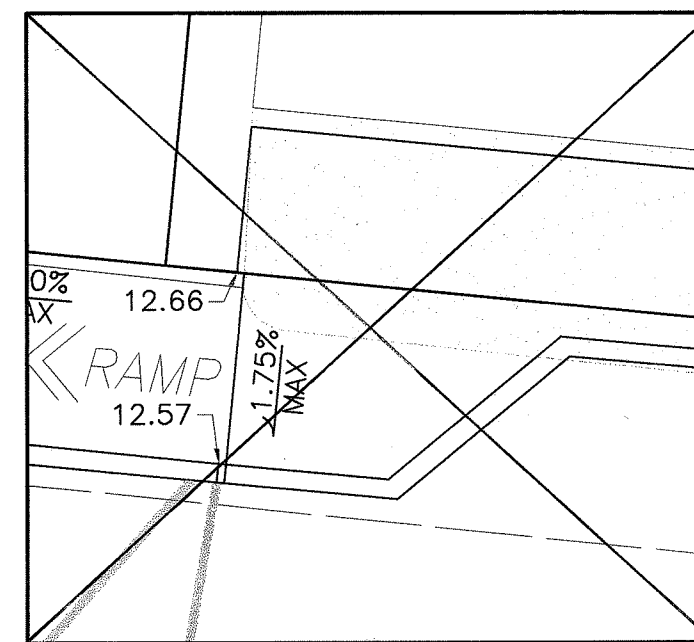
STATION 257+30 LEFT
SCALE: 1"= 5'



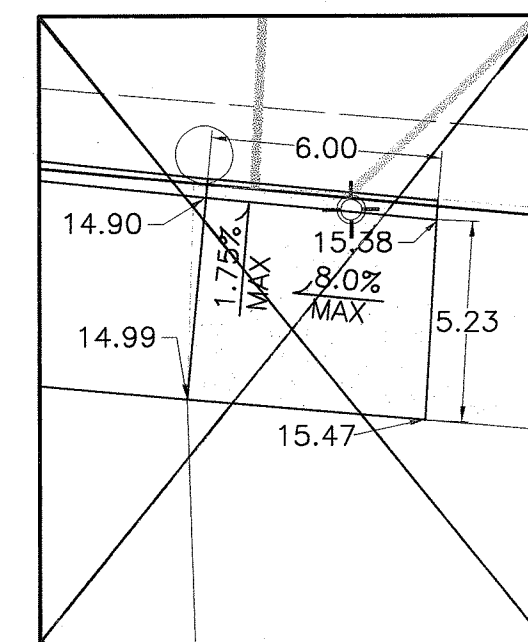
STATION 257+65 LEFT
SCALE: 1"= 5'



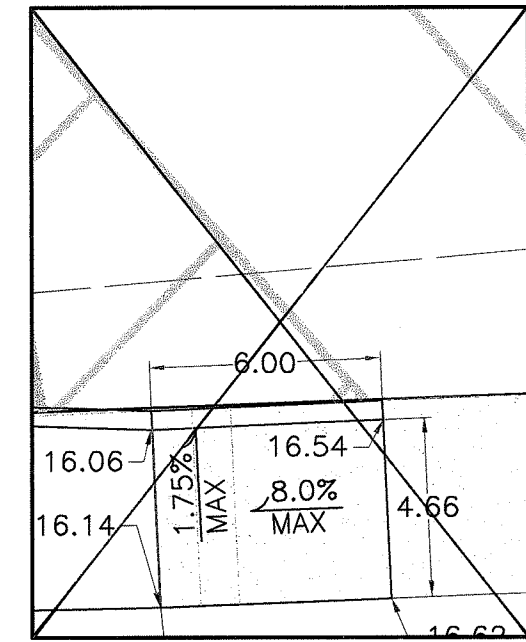
STATION 258+20 LEFT
SCALE: 1"= 5'



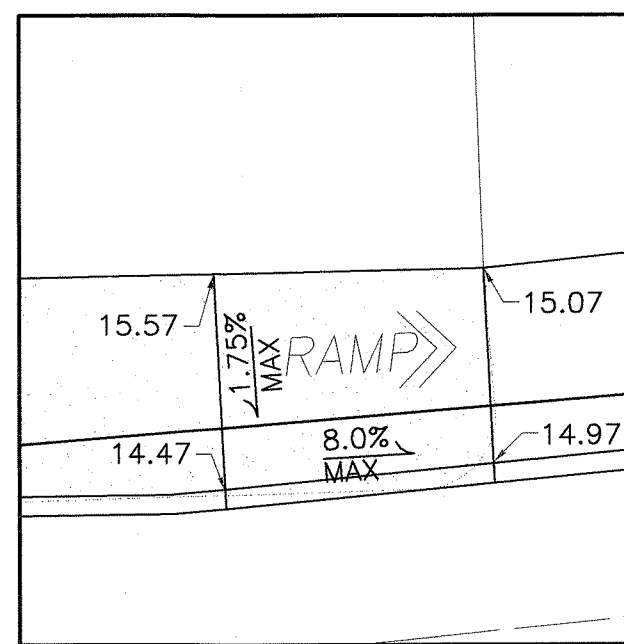
STATION 258+20 LEFT
SCALE: 1"= 5'



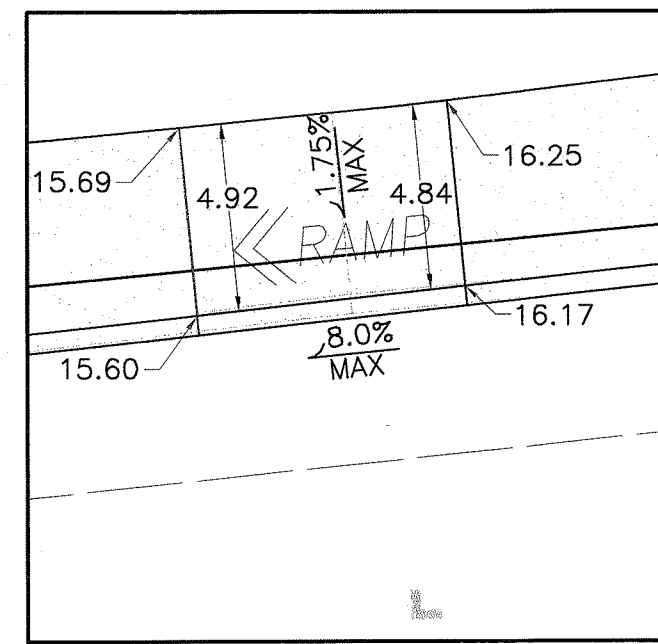
STATION 259+30 RIGHT
SCALE: 1"= 5'



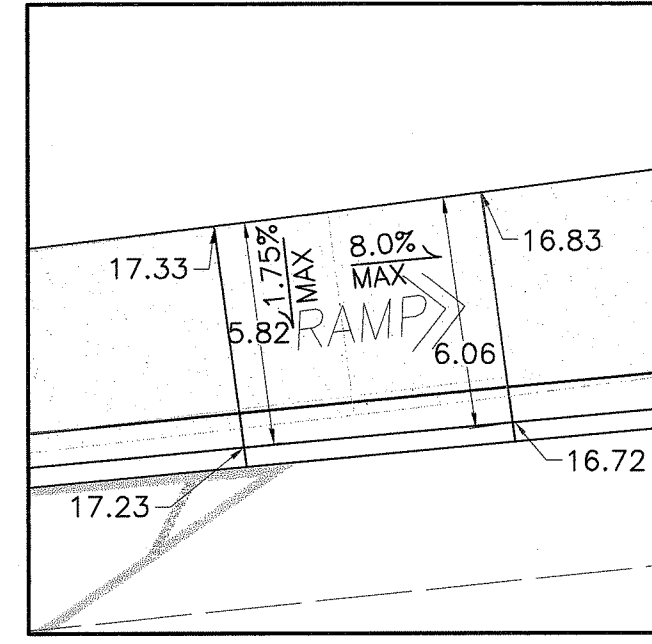
STATION 0+50 RIGHT
SCALE: 1"= 5'



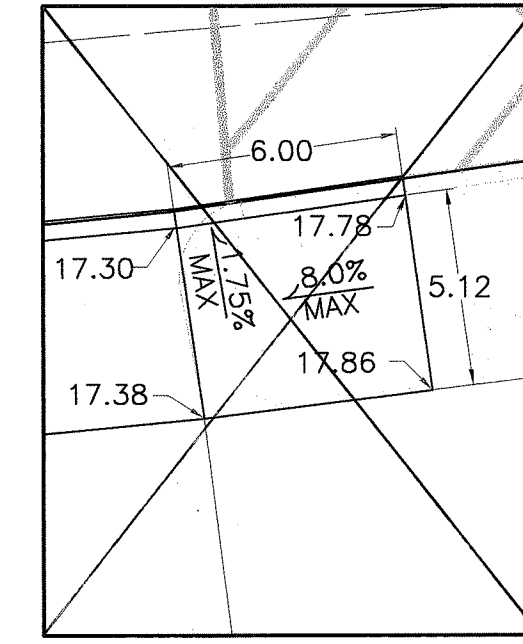
STATION 0+80 LEFT
SCALE: 1"= 5'



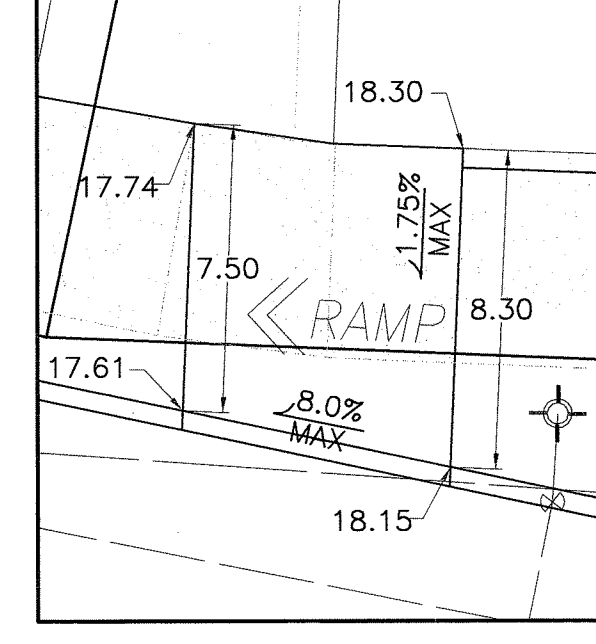
STATION 1+25 LEFT
SCALE: 1"= 5'



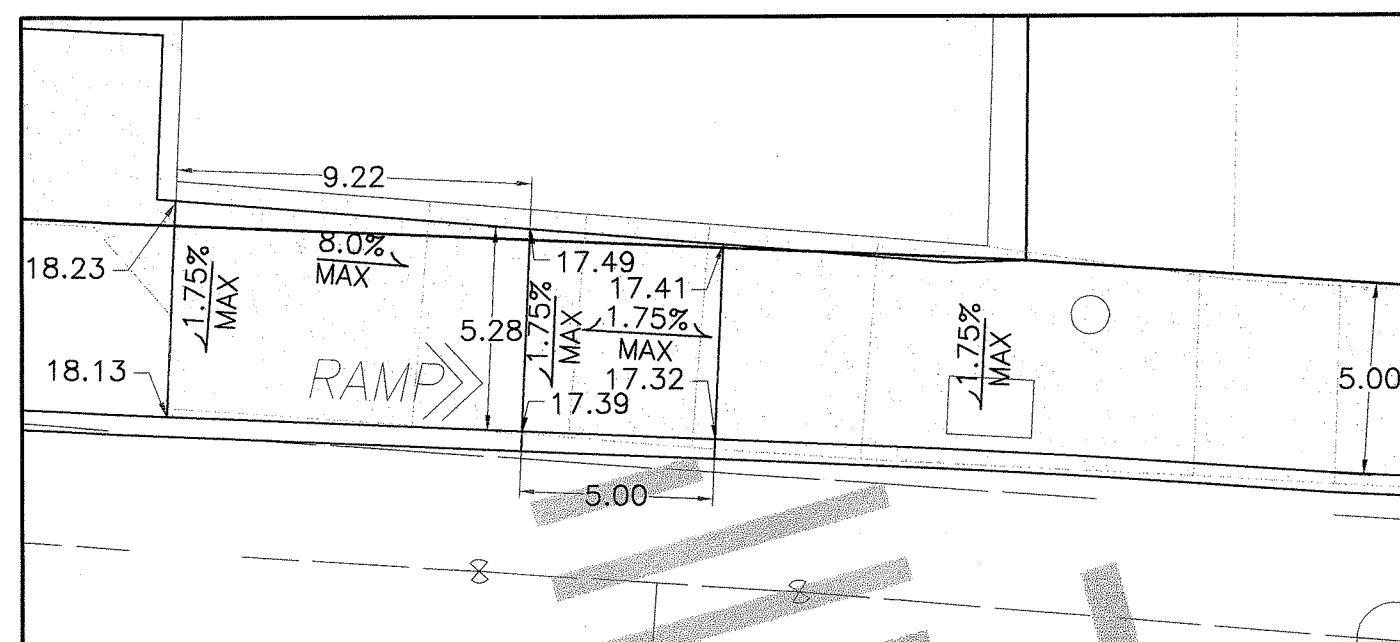
STATION 1+85 LEFT
SCALE: 1"= 5'



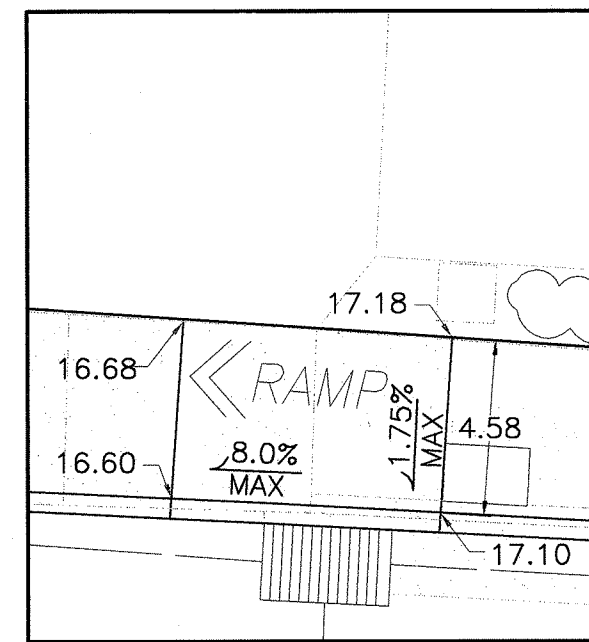
STATION 1+45 RIGHT
SCALE: 1"= 5'



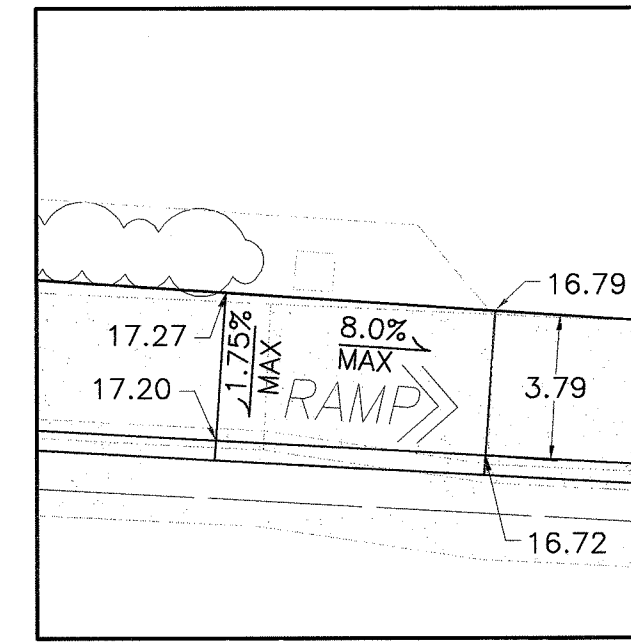
STATION 2+30 LEFT
SCALE: 1"= 5'



STATION 3+25 LEFT
SCALE: 1"= 5'



STATION 3+60 LEFT
SCALE: 1"= 5'



STATION 4+20 LEFT
SCALE: 1"= 5'

SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
DESIGNED BY	
CHECKED BY	
ORIGINAL PLAN	No.

NEAL S. FUKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6188-C
HAWAII U.S.A.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIDEWALK RAMP DETAILS
STA 253+45 TO STA 4+20
ROUTE 36, HANA HIGHWAY RESURFACING
HALEAKALA HWY TO HOOKIPA PARK
PAIA TOWN SECTION

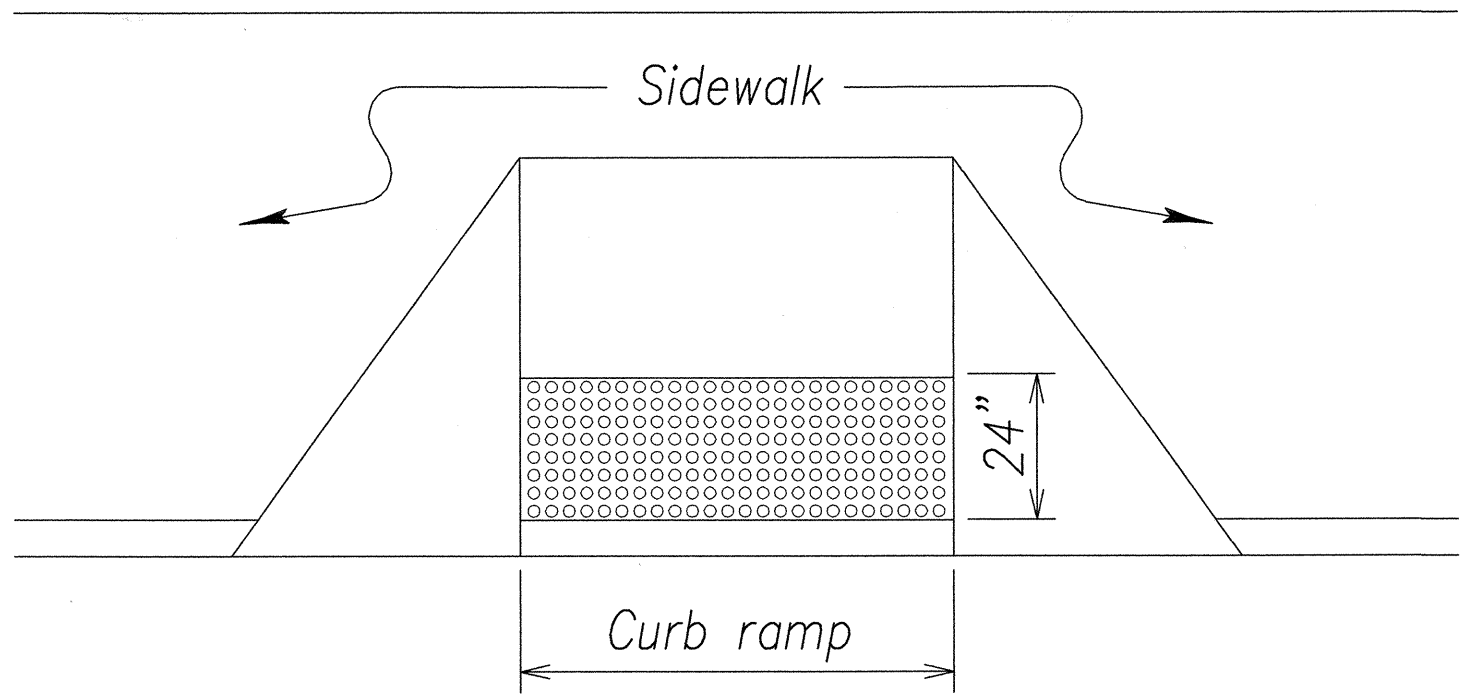
Project No. 36AB-02-04M
Scale: As Shown Date: MAY 2005

EXPIRATION DATE OF THE LICENSE

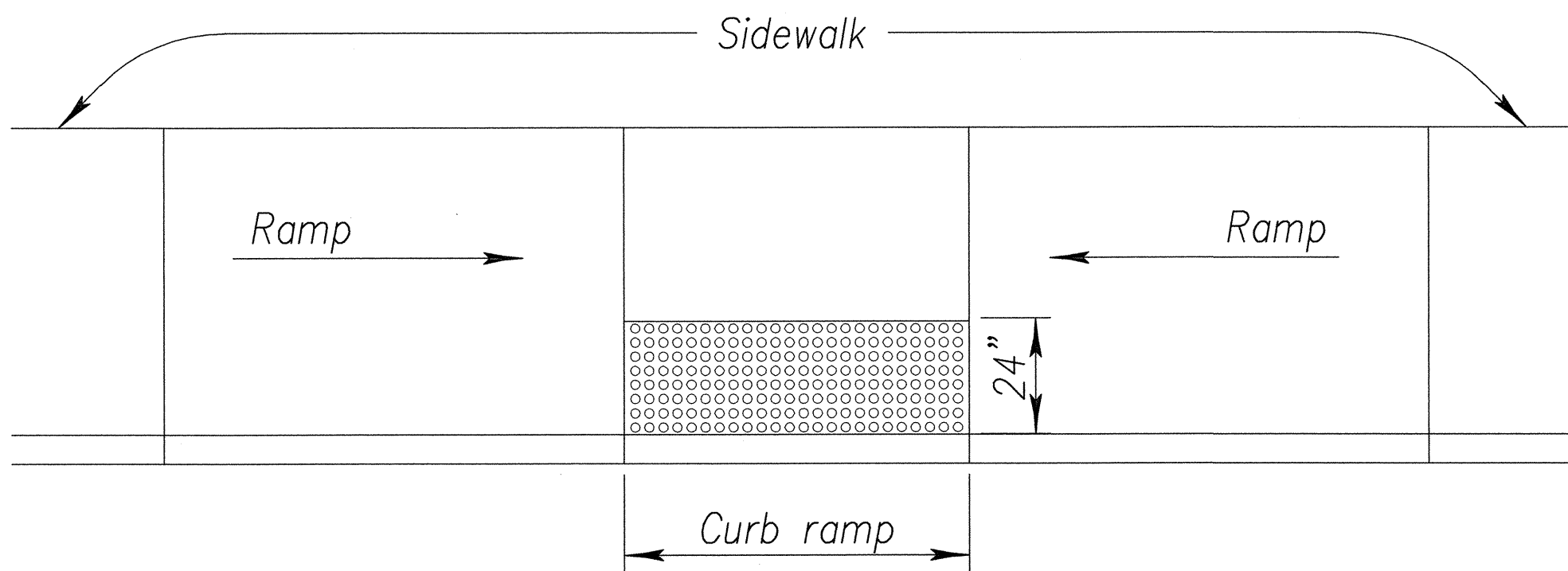
SHEET No. 1 OF 2 SHEETS

"AS-BUILT"

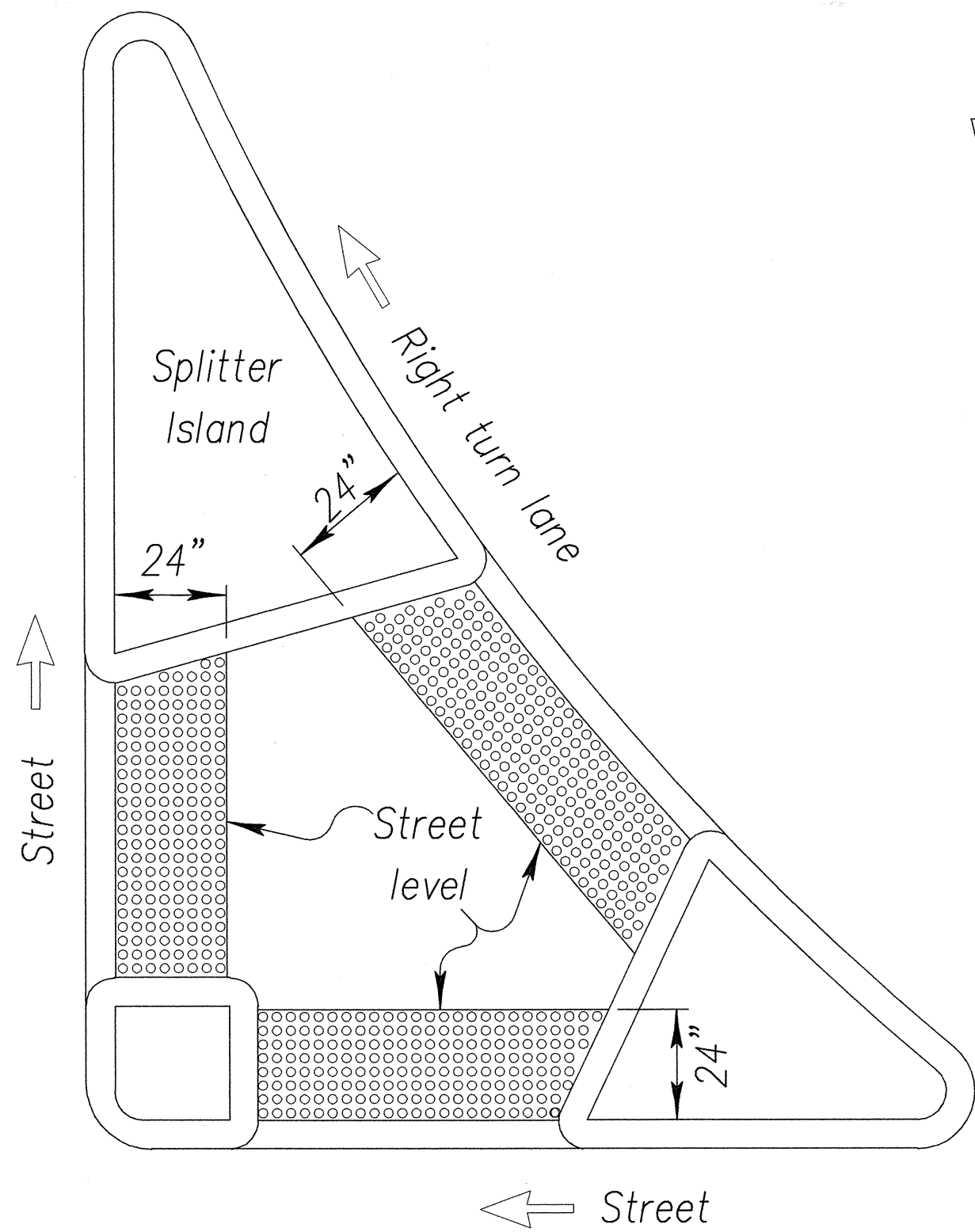
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	36AB-02-04M	2005	39	48



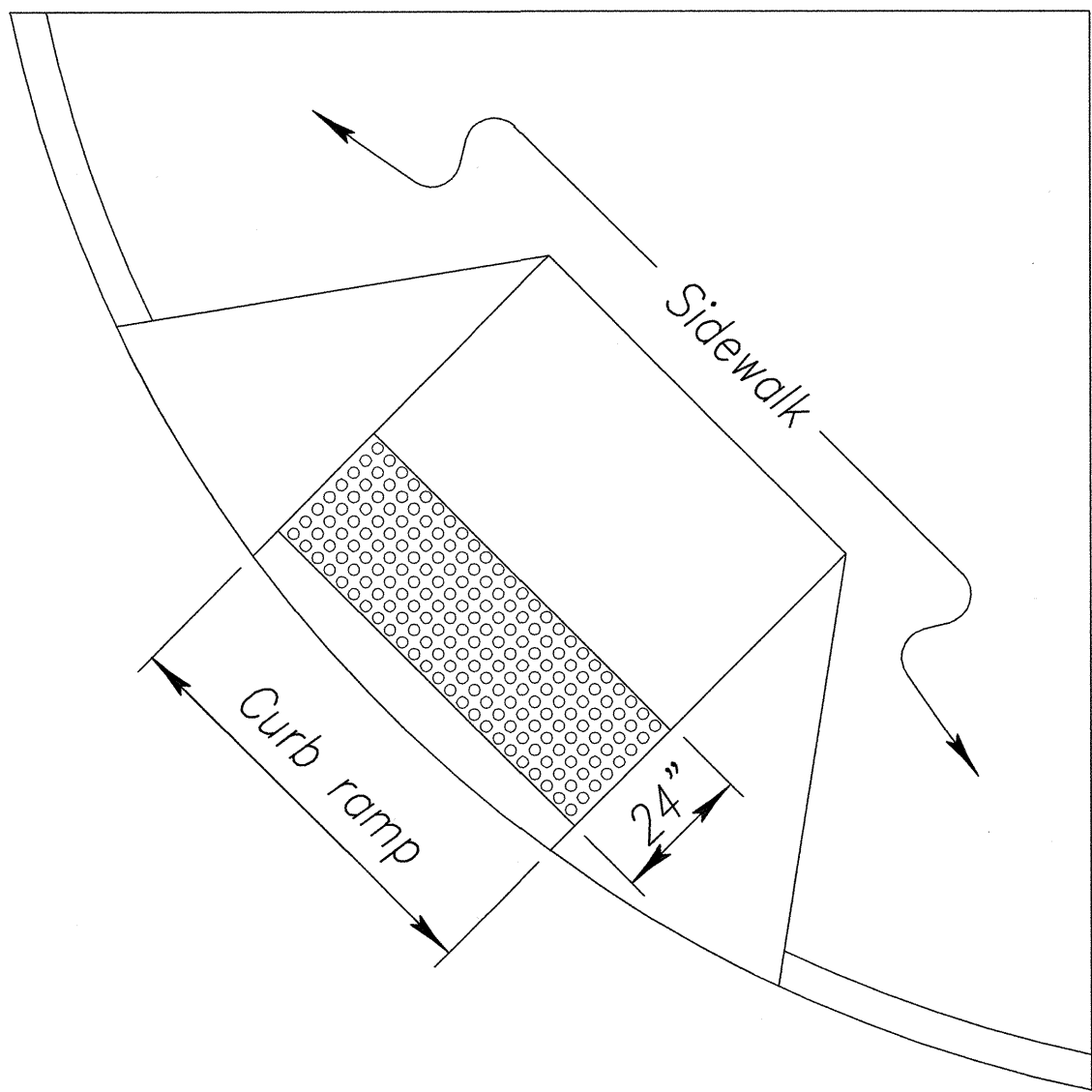
DETECTABLE WARNING AT CURB RAMP



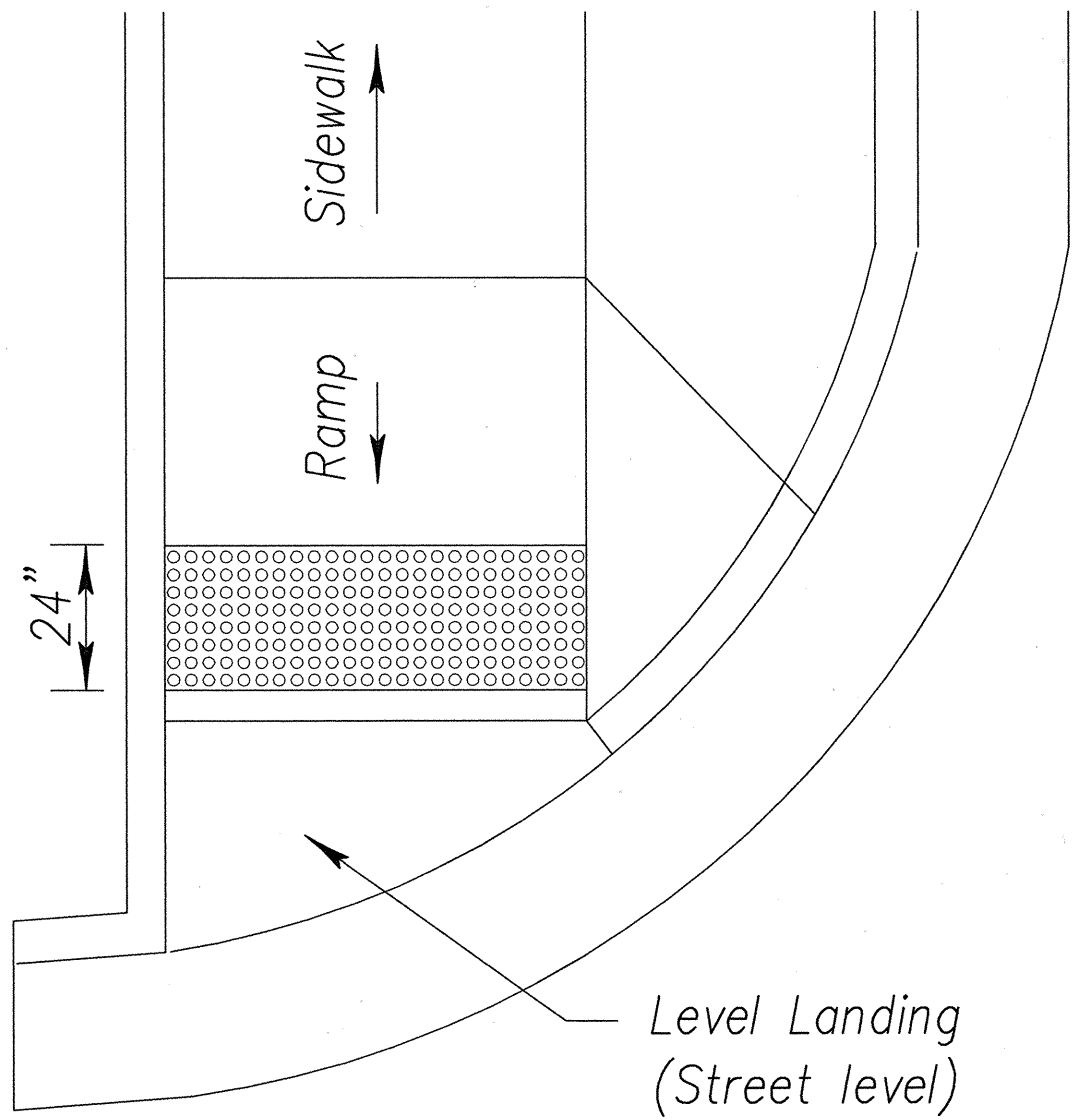
TRANSITION RAMP WITH DETECTABLE WARNING



REFUGE ISLAND WITH DETECTABLE WARNING



SHARED CURB RAMP WITH DETECTABLE WARNING



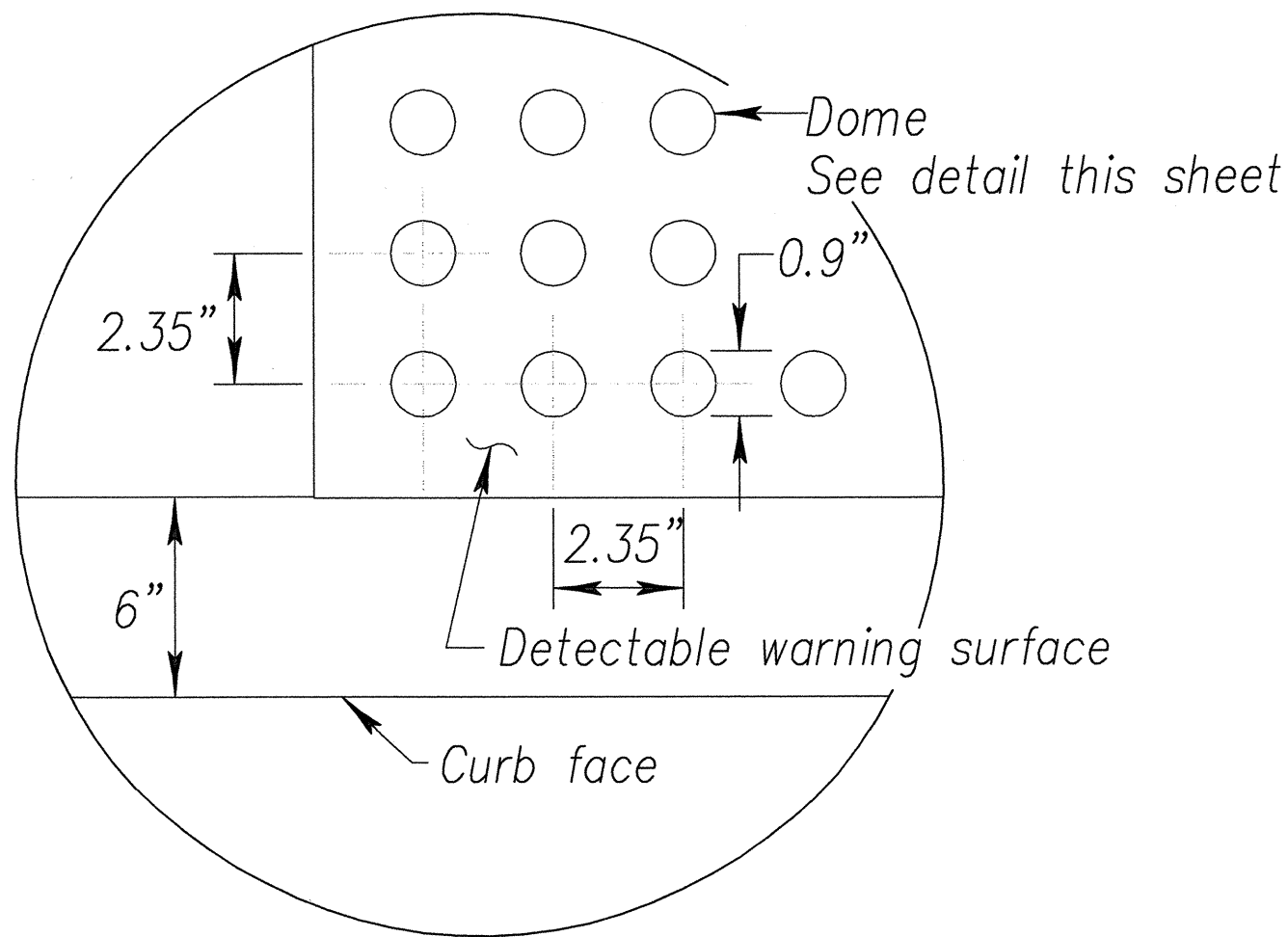
END OF SIDEWALK CURB RAMP WITH DETECTABLE WARNING

TYPICAL INSTALLATION OF DETECTABLE WARNINGS

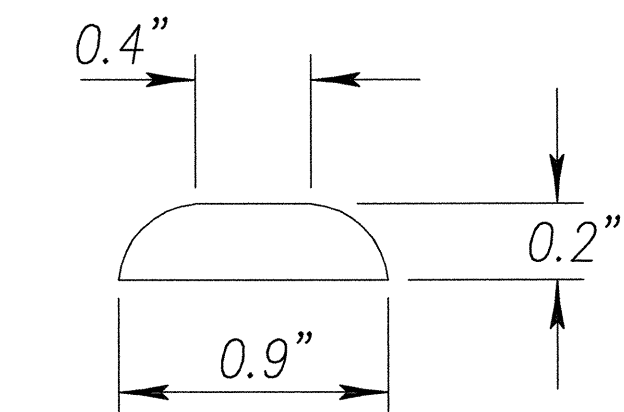
Not to Scale

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

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

NEAL S. FUKUMOTO
LICENSED PROFESSIONAL ENGINEER
No. 6186-C
HAWAII U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
April 30, 2006
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

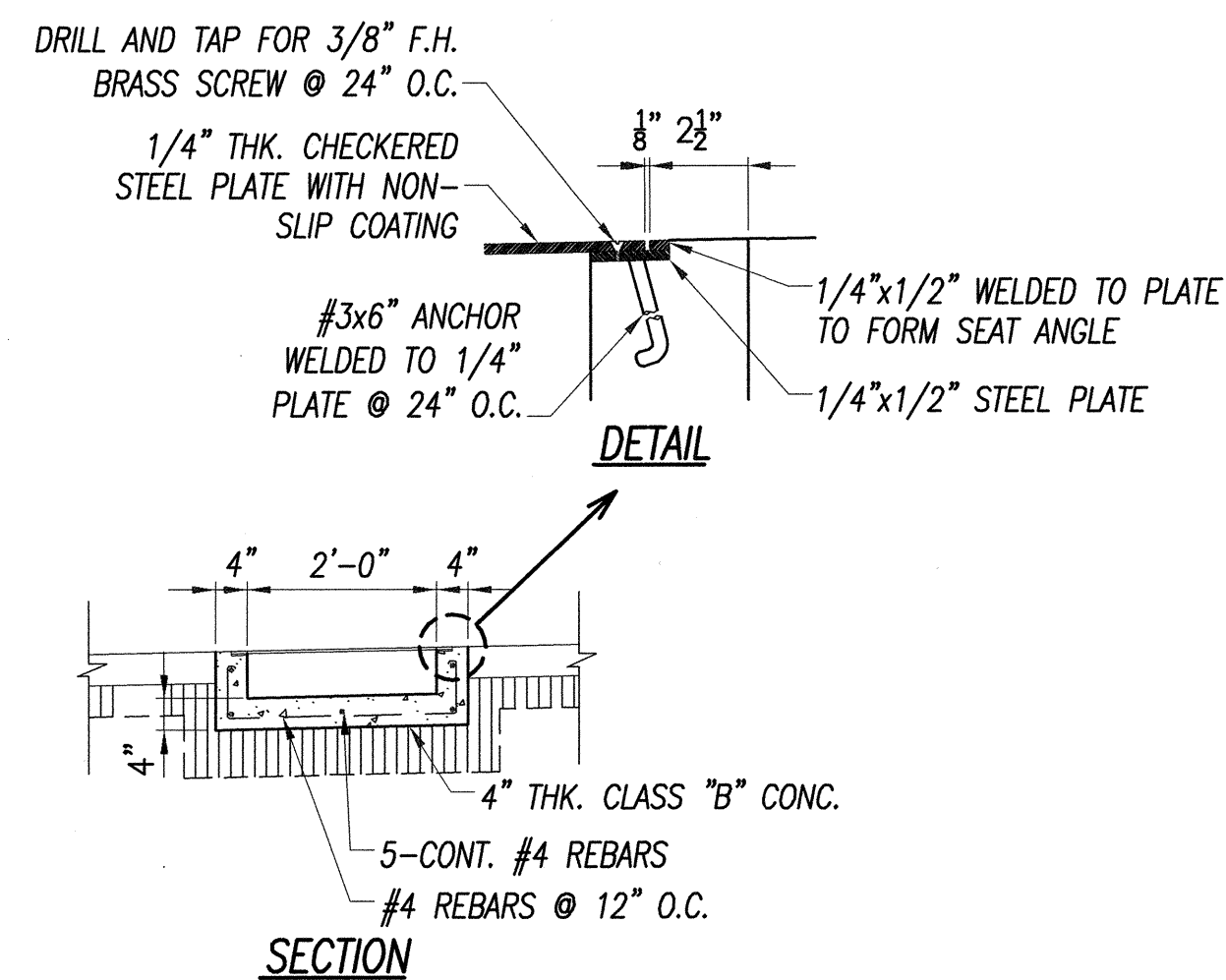
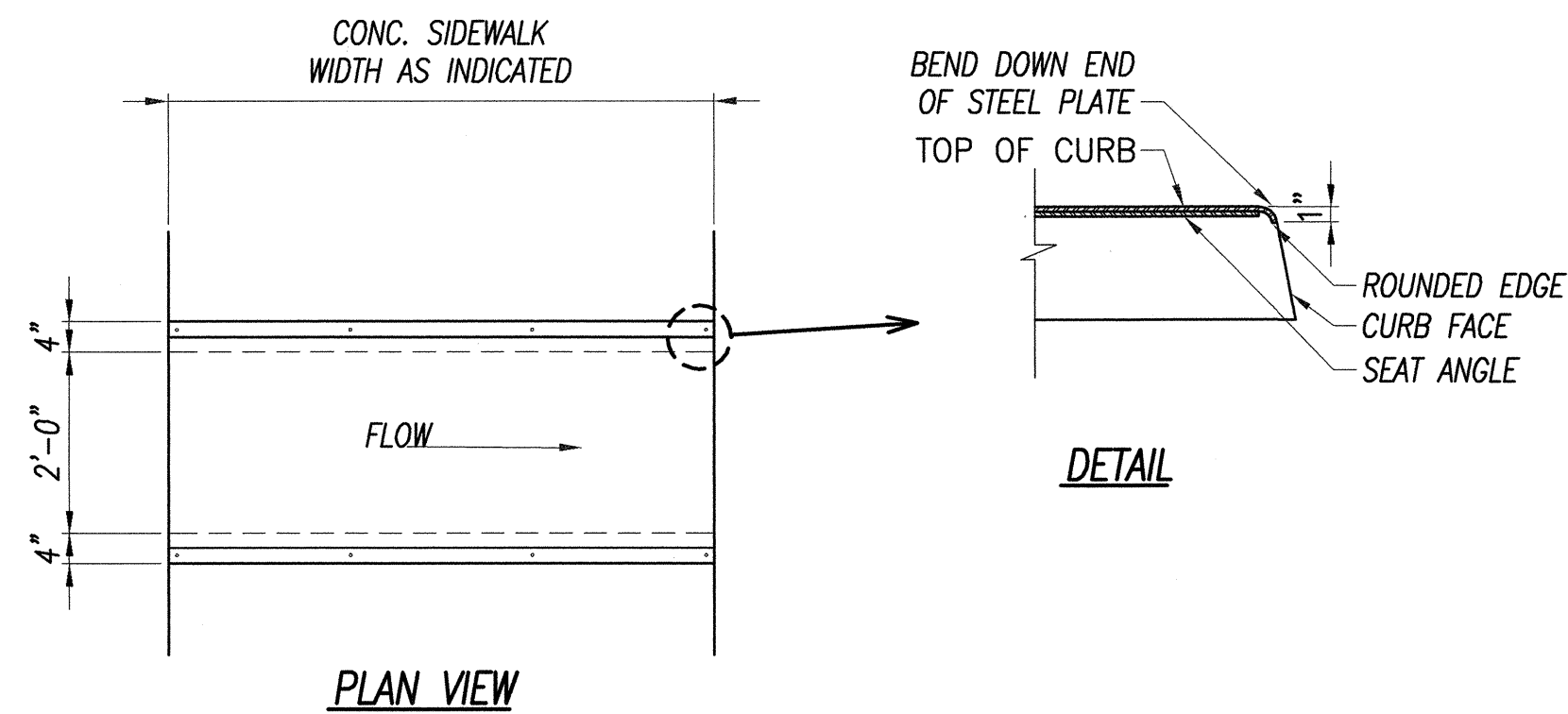
DETECTABLE WARNING DETAILS

ROUTE 36, HANA HIGHWAY RESURFACING
HALEAKALA HWY TO HOOKIPA PARK
PAIA TOWN SECTION

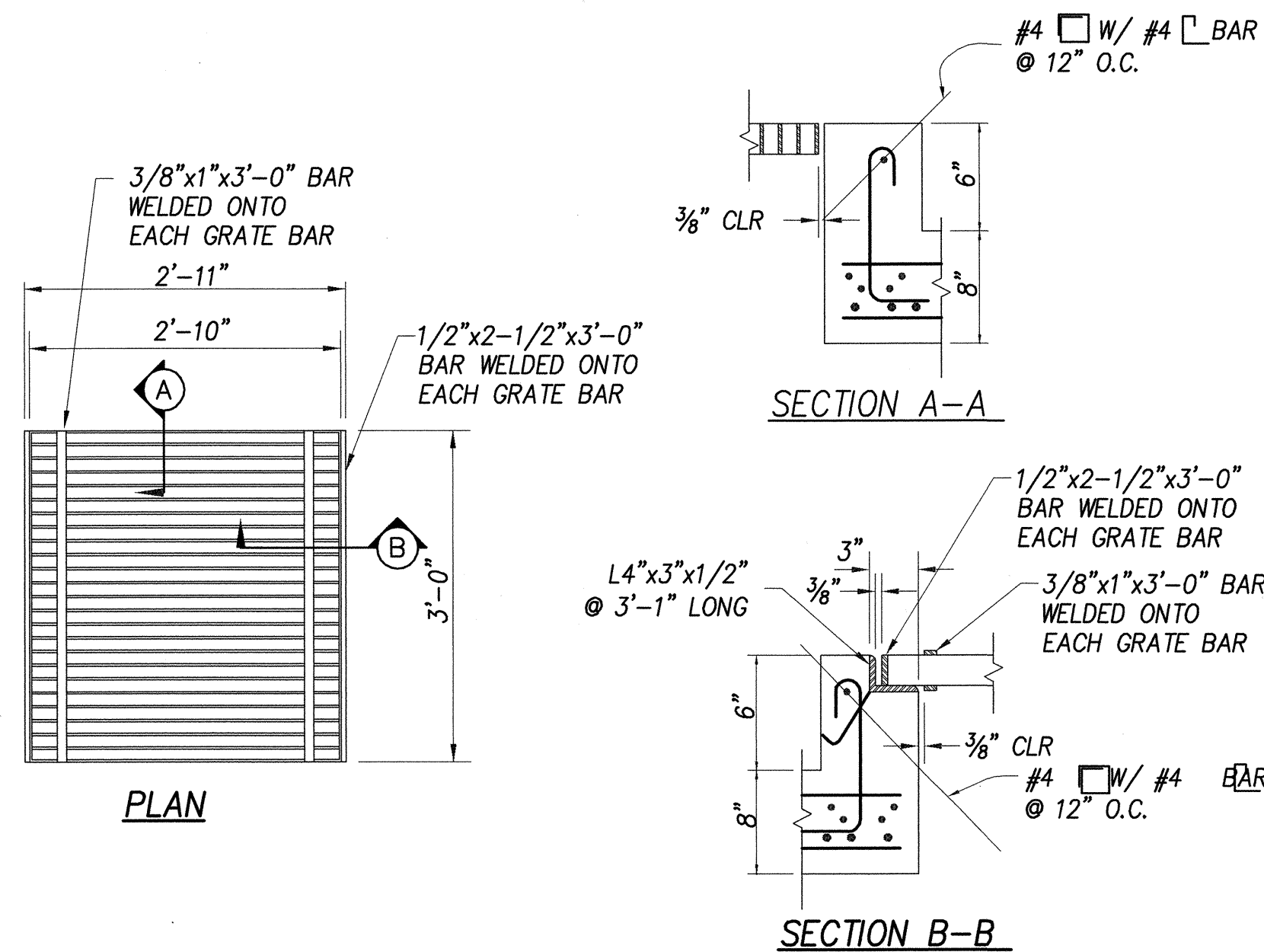
Project No. 36AB-02-04M
Scale: As Shown Date: MAY 2005

SHEET No. 1 OF 1 SHEETS

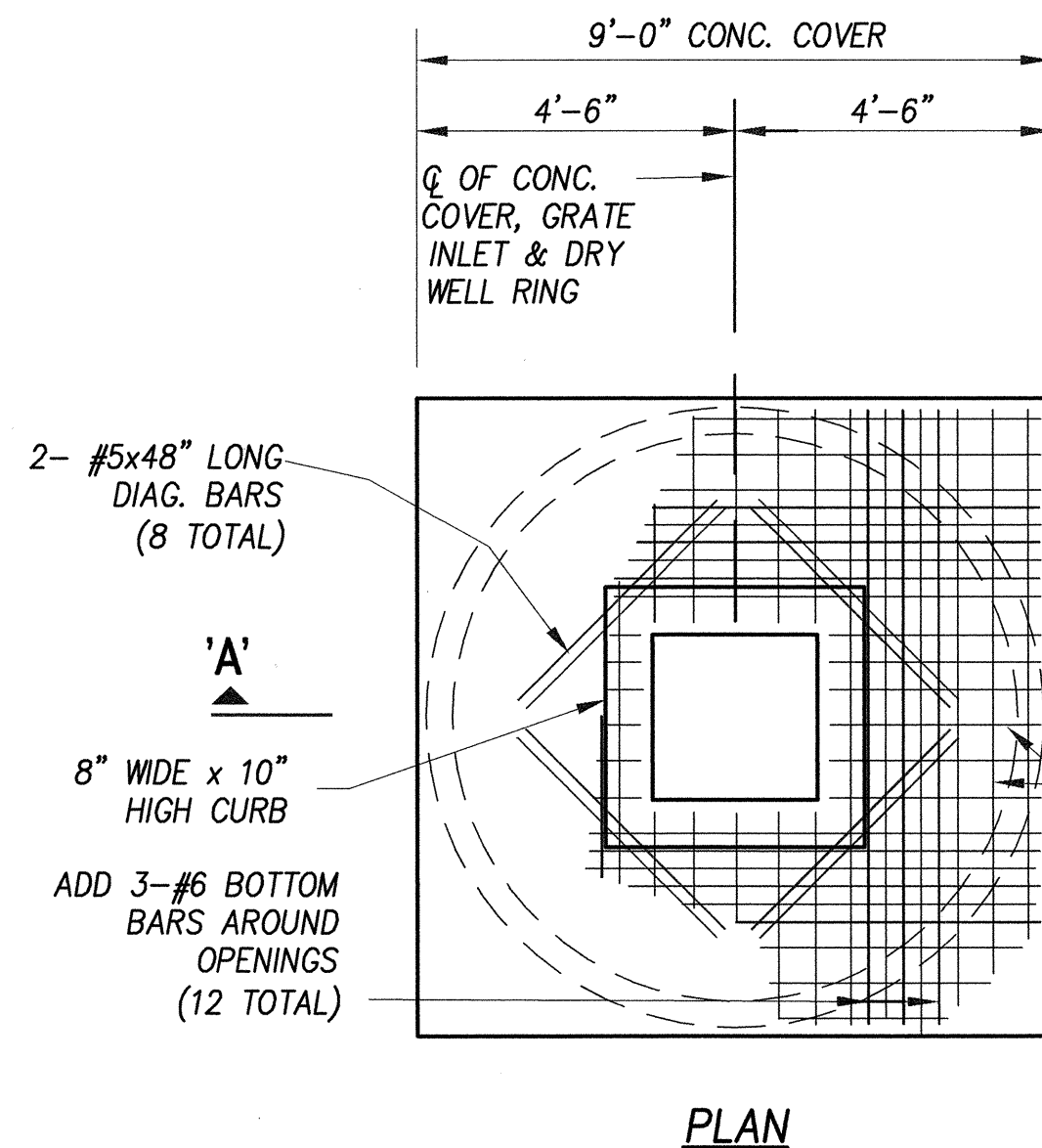
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	36AB-02-04M	2005	40	48



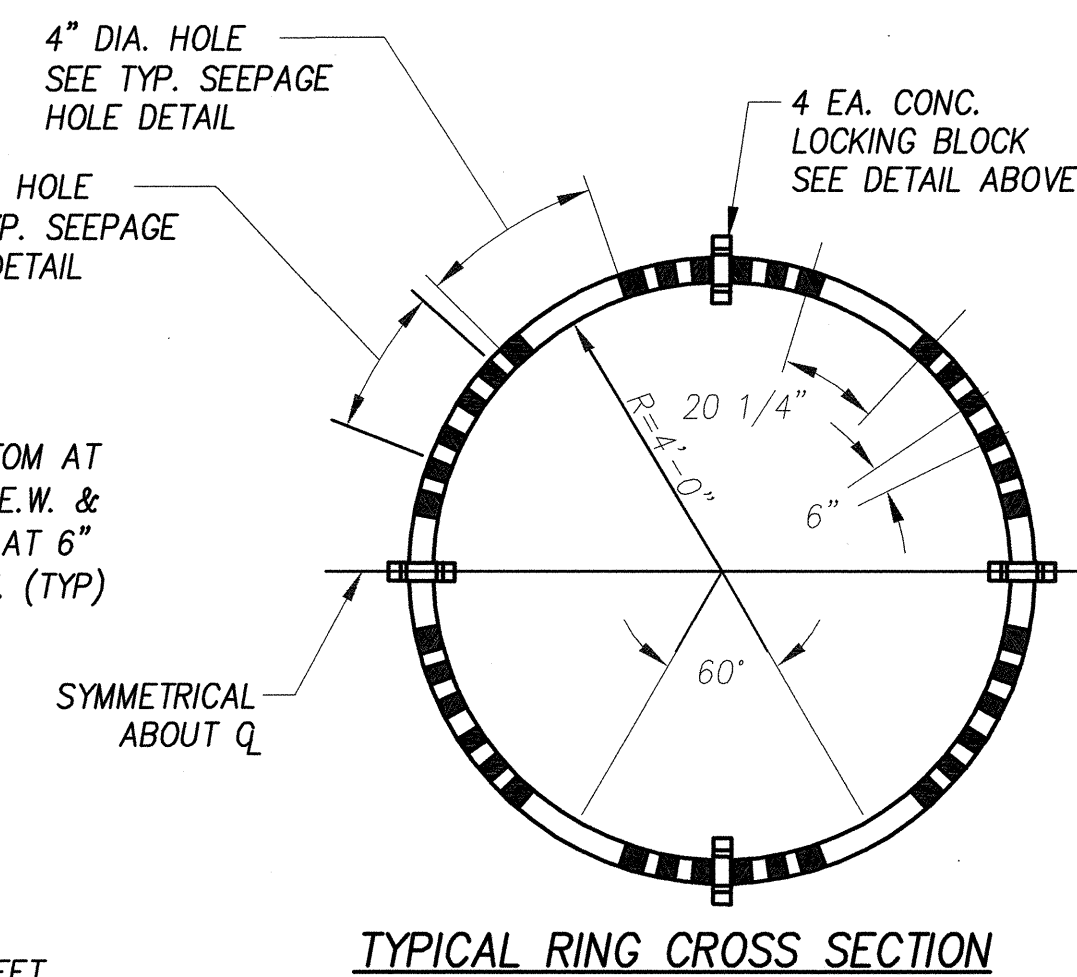
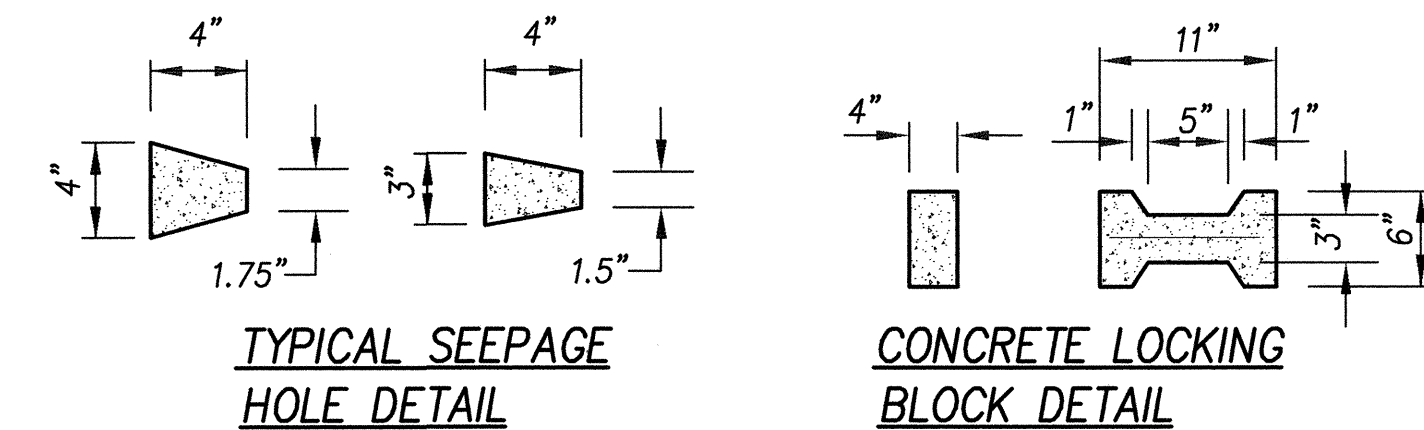
SIDEWALK CULVERT
SCALE: 1/2"=1'-0"



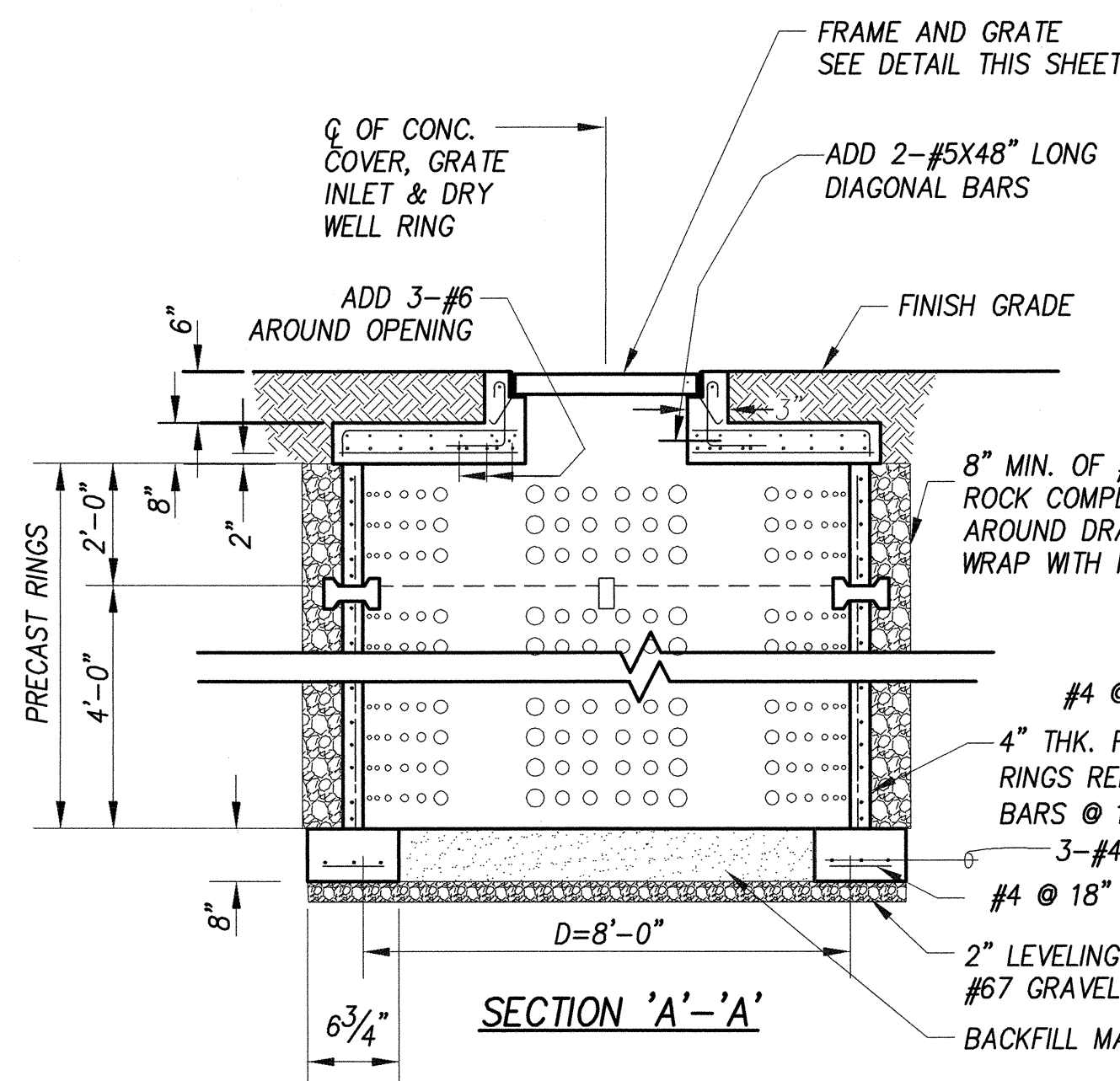
DRY WELL GRATE DETAIL
NOT TO SCALE



PLAN

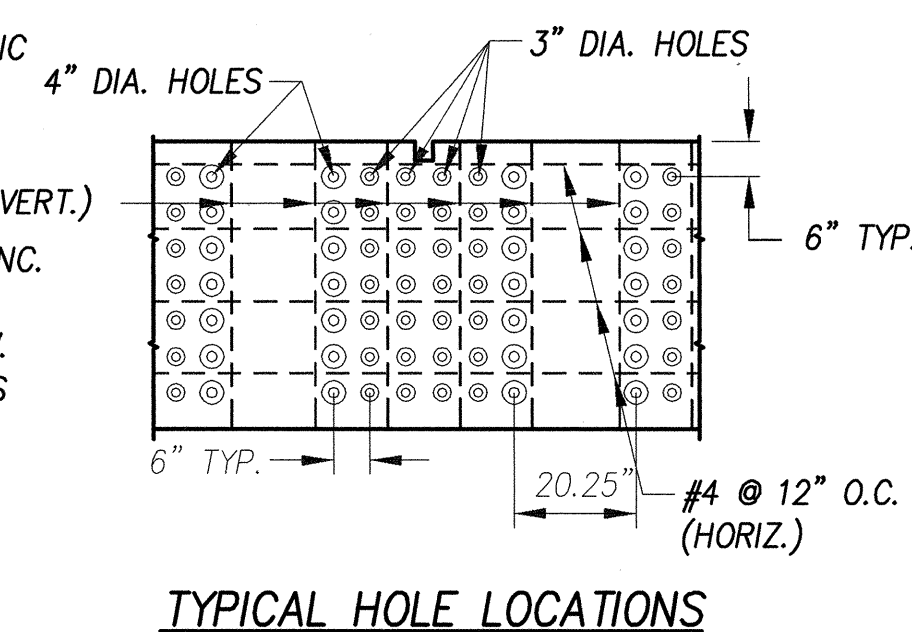


TYPICAL RING CROSS SECTION



SECTION A-A

- NOTES:**
1. BACKFILL WITH GRAVEL #3 (1 1/2").
 2. CONCRETE FOR COVER SHALL BE 4000 PSI. 28 DAY COMPRESSIVE STRENGTH.
 3. CONTRACTOR TO TEST PERCOLATION RATE TO ENSURE MINIMUM CAPACITY OF TWO (2) CUBIC FEET PER SECOND.



TYPICAL HOLE LOCATIONS

MODIFIED DRYWELL DETAIL
NOT TO SCALE

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

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

April 30, 2006

EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

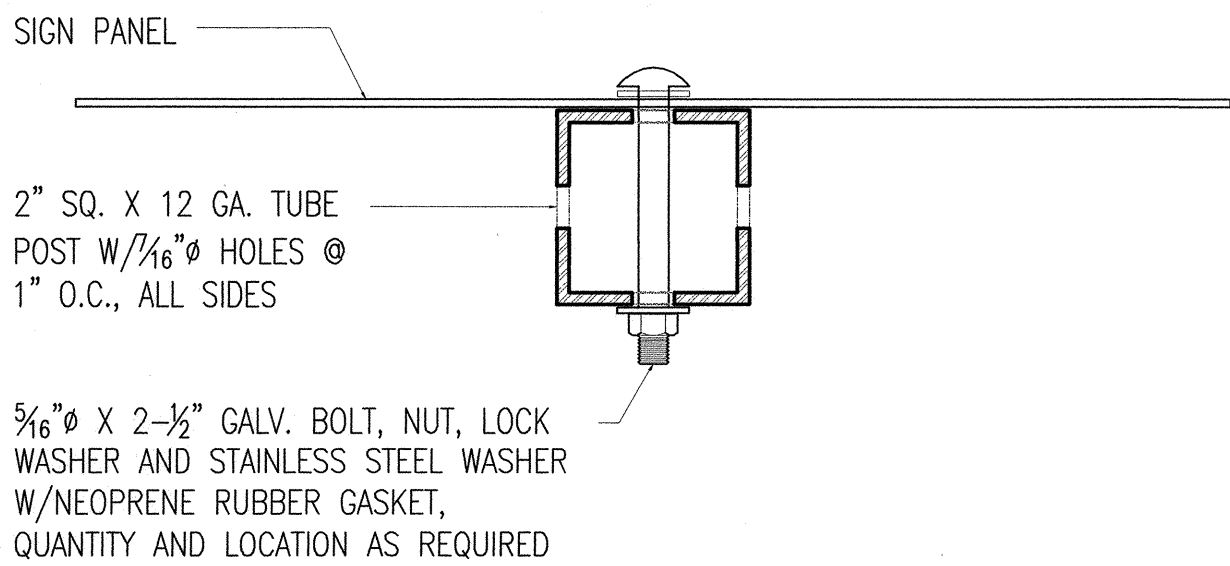
CONCRETE & DRAINAGE DETAILS

ROUTE 36, HANA HIGHWAY RESURFACING
HALEAKALA HWY TO HOOKIPA PARK
PAIA TOWN SECTION

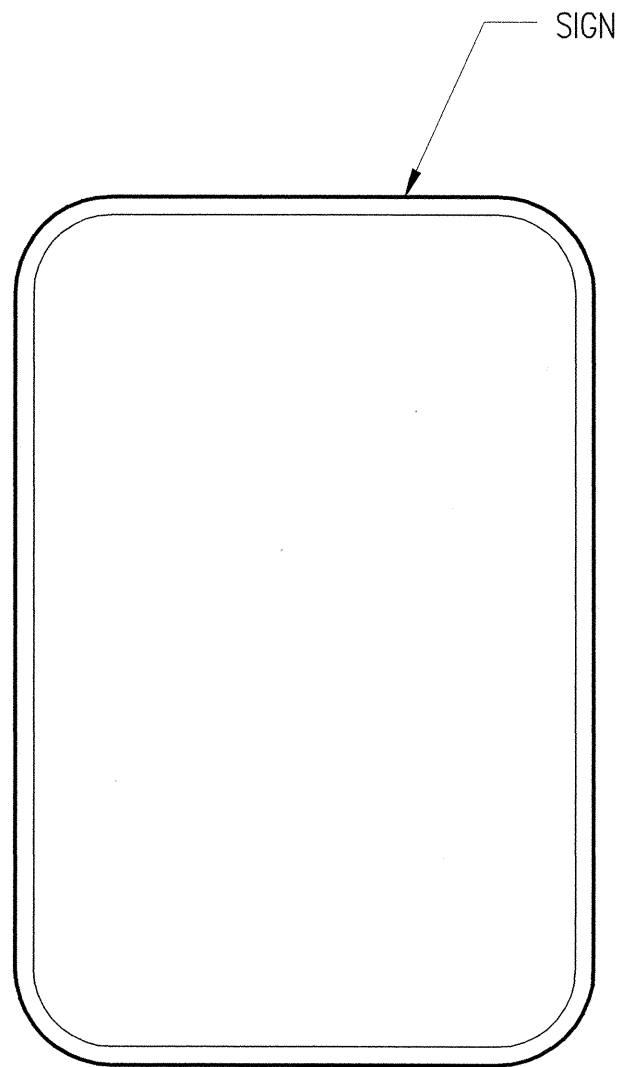
Project No. 36AB-02-04M
Scale: As Shown Date: MAY 2005

SHEET No. 1 OF 1 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	36AB-02-04M	2005	41	38



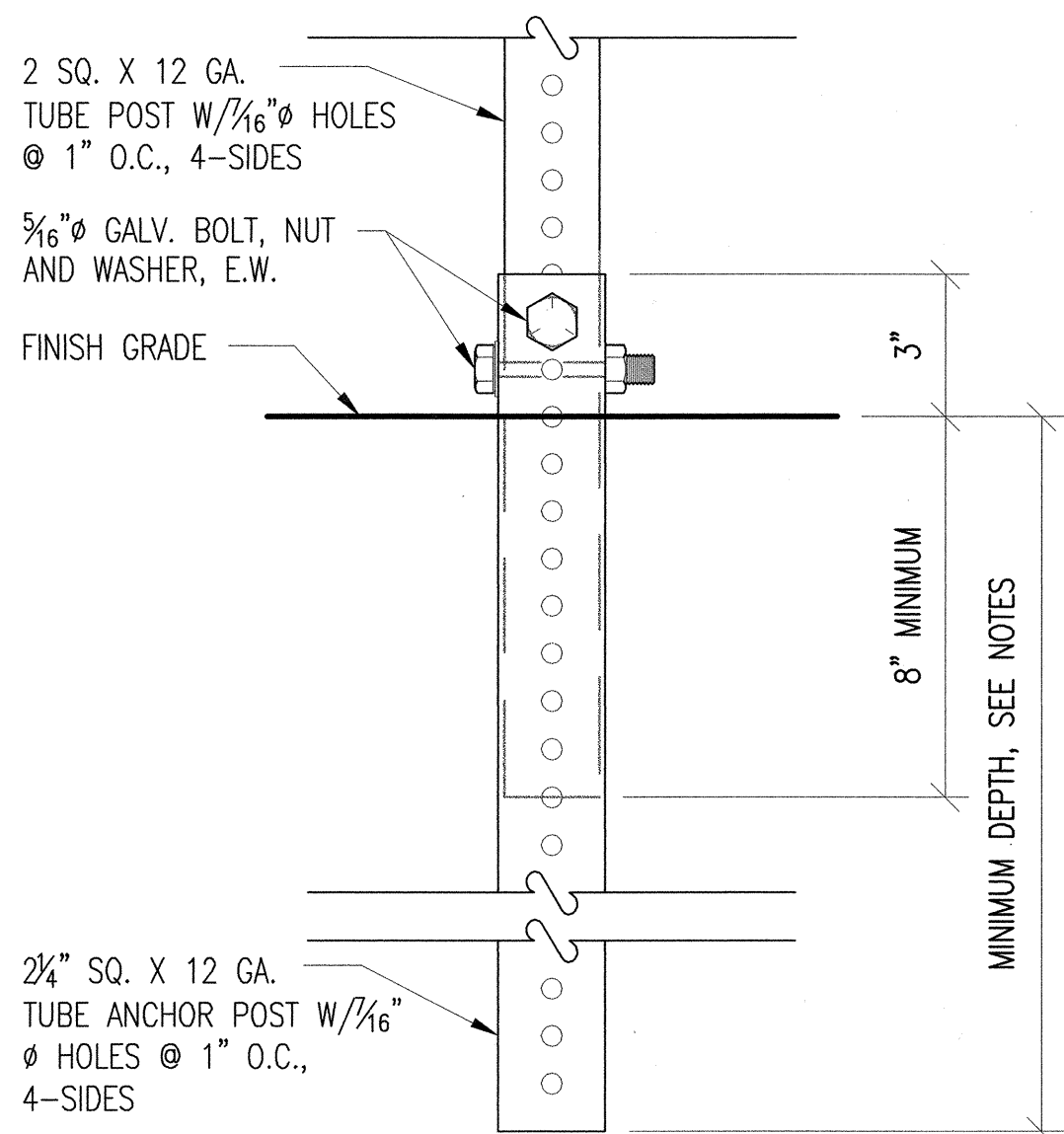
SIGN MOUNTING DETAIL
SCALE: 6" = 1'-0"



SIGN DETAIL
SCALE: 3" = 1'-0"

GENERAL NOTES:

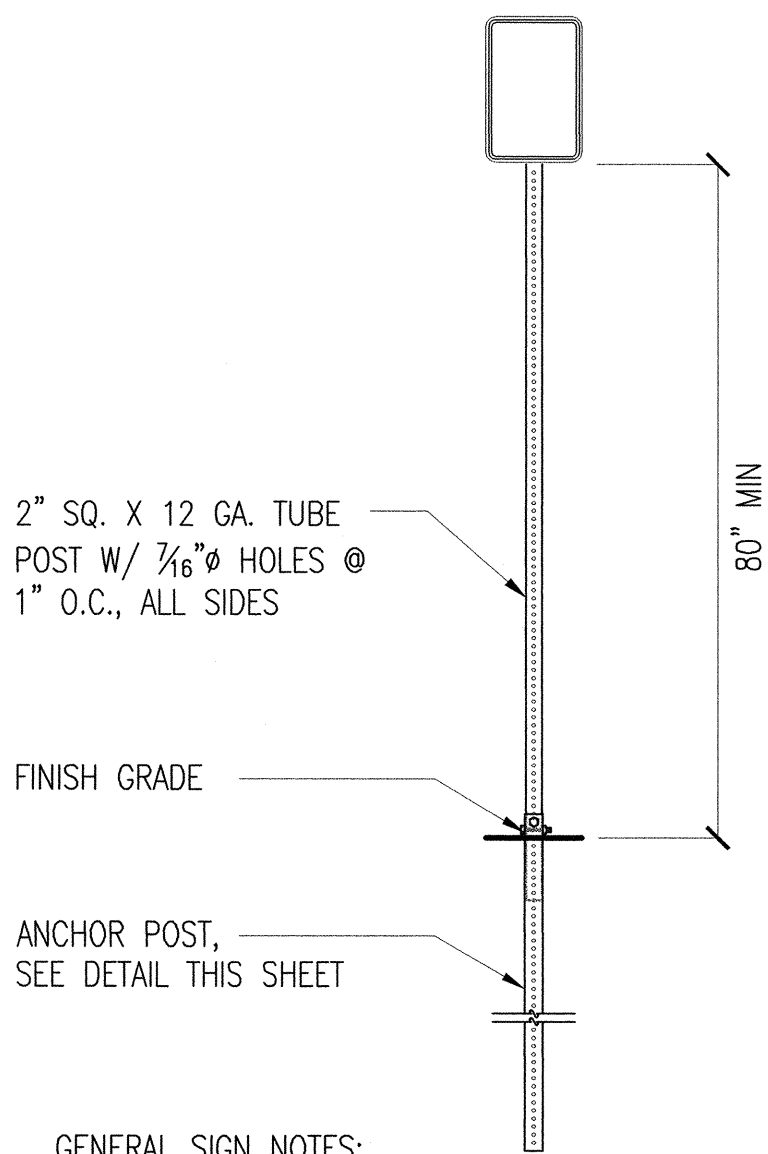
1. SIGN PLATE MATERIAL SHALL BE 0.080" MIN. THICKNESS, ALUMINUM SHEET (ASTM B209 ALLOY 6061-T6 FLAT SHEET).
2. SIGN DETAILS SHALL CONFORM TO THE LATEST EDITIONS OF FHWA PUBLICATIONS "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", "STANDARD ALPHABETS FOR HIGHWAY SIGNS", AND "STANDARD HIGHWAY SIGNS", AND AS AMENDED.
3. ALL SIGNS SHALL BE HIGH INTENSITY REFLECTIVE, SHEETING UNLESS OTHERWISE SPECIFIED.
4. ALL SIGNS SHALL BE FASTENED TO WALL WITH FOUR (4) 1/8" EXPANSION BOLTS AT APPROPRIATE LOCATIONS.



SIGN ANCHOR POST DETAIL
SCALE: 3" = 1'-0"

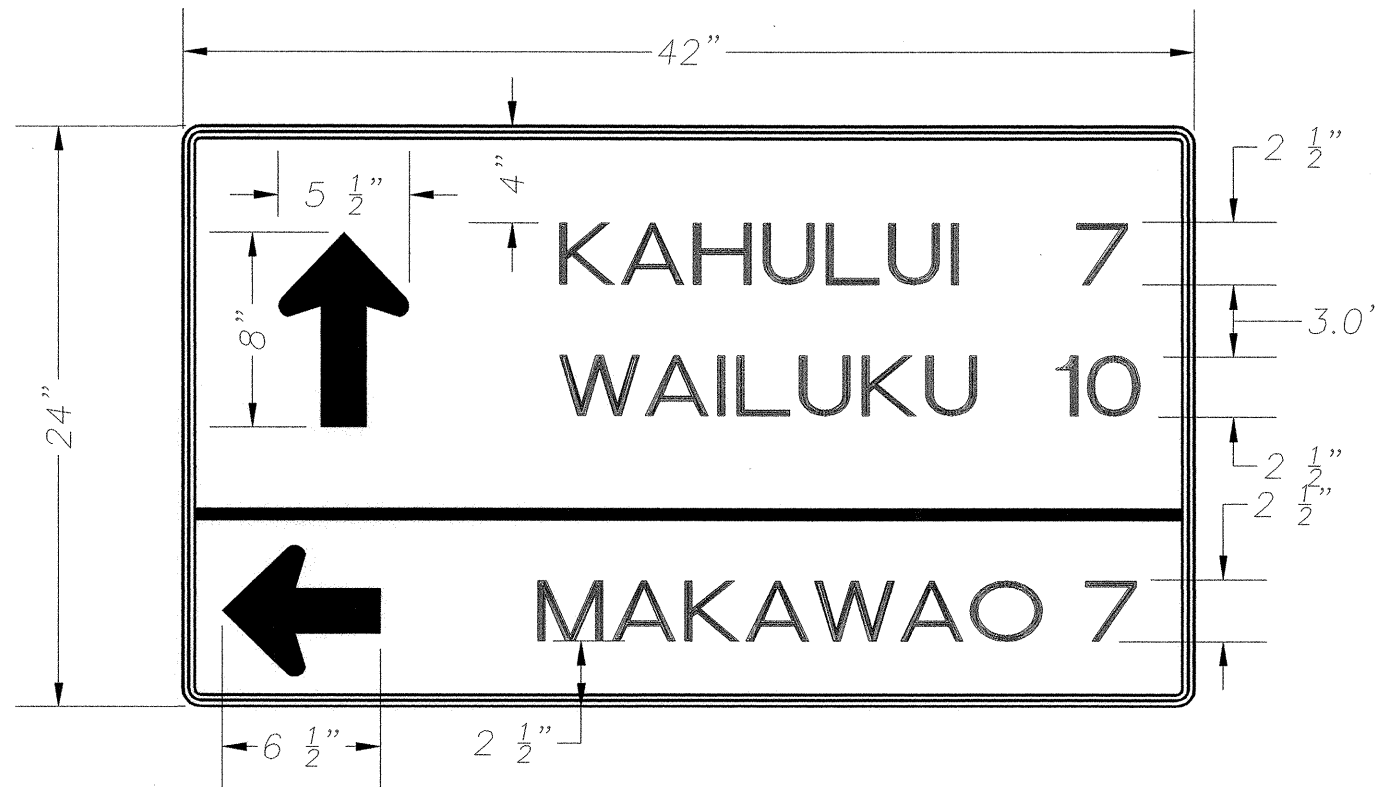
ANCHOR POST NOTES

1. KEEP INSIDE OF 2 1/4" ANCHOR POST FREE OF IMPEDIMENTS THAT MAY PREVENT PROPER INSERTION OF THE 2" POST.
2. SQUARE TUBE POSTS SHALL BE TELESOPING TYPE 1/16" HOLES @ 1" O.C., ALL-SIDES.
3. MINIMUM BURY DEPTH FOR THE 2 1/4" ANCHOR POST SHALL BE AS FOLLOWS:
4'-0" MIN. @ NORMAL OR POOR SOIL CONDITIONS
2'-6" MIN. @ ROCKY CONDITIONS
4. SIGN POSTS SHALL BE INSTALLED PLUMB AND FIRM. THE CONTRACTOR SHALL NOTIFY THE ENGINEER WHERE MINIMUM BURY DEPTH IS ACHIEVED AND SIGN POST DOES NOT SET FIRM.

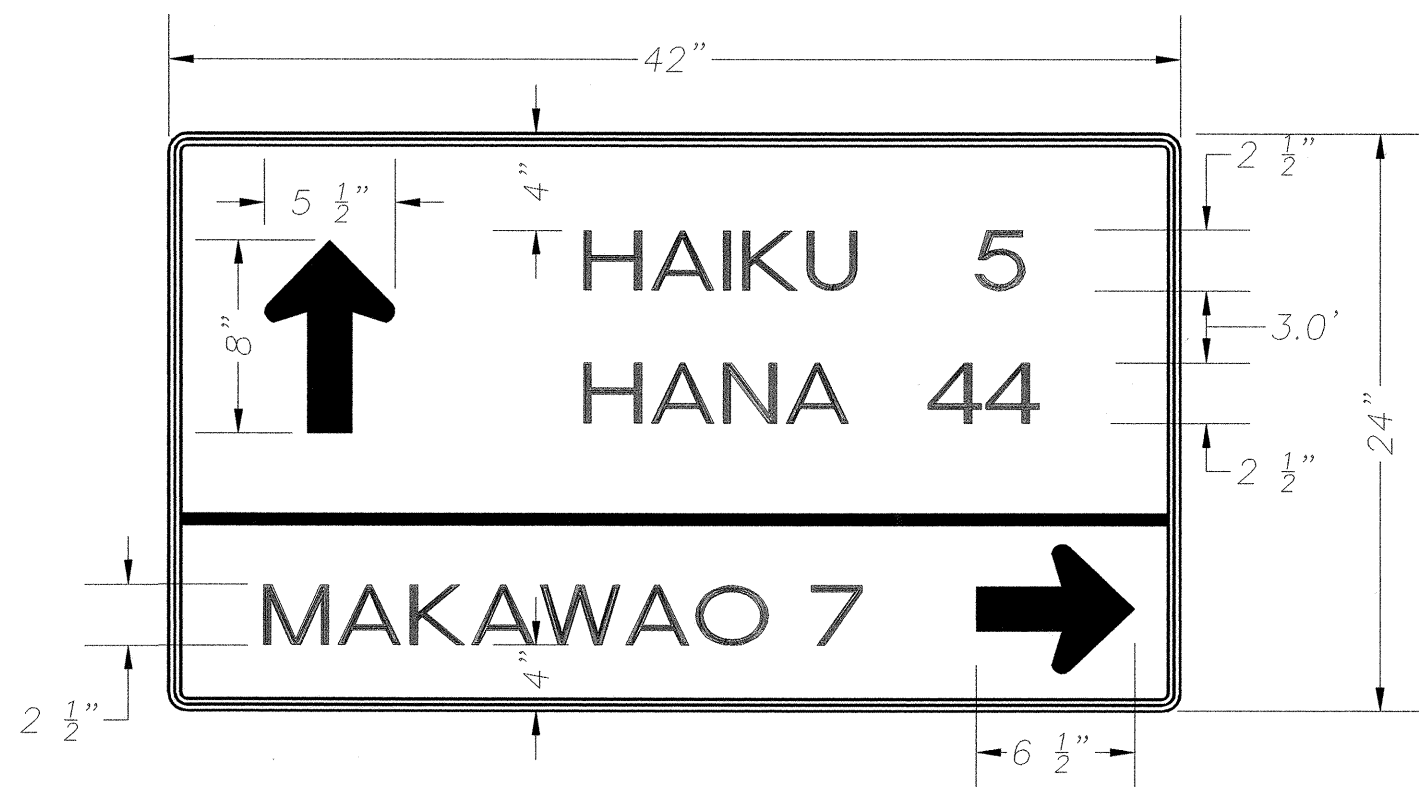


GENERAL SIGN NOTES:
LOCATE SIGNS AS INDICATED ON THE PLANS AND AS SHOWN IN DETAILS

SIGN POST DETAIL
SCALE: 1/2" = 1'-0"



DESTINATION SIGN STA. 254+85 RIGHT
SCALE: 1-1/2" = 1'-0"



DESTINATION SIGN STA. 8+85 LEFT
SCALE: 1-1/2" = 1'-0"

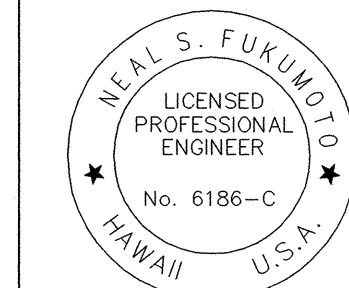


BORDER, TEXT, AND GRAPHIC HIGH INTENSITY WHITE ON BLUE BACKGROUND. TYPEFACE: HELV. COND. (CONDENSE MANUALLY)

SHORELINE ACCESS SIGN NOTES

1. DIMENSIONS SHOWN ARE FOR BIDDING PURPOSES ONLY. FOLLOW THE EXISTING SIGN DIMENSIONS WHEN MANUFACTURING NEW.
2. USE HIGH INTENSITY RETROREFLECTIVE SHEETING.

6-17-05	1 SHORELINE ACCESS SIGN DETAIL ADDED
DATE	DESCRIPTION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
<u>SIGN DETAILS</u> ROUTE 36, HANA HIGHWAY RESURFACING HALEAKALA HWY TO HOOKIPA PARK PAIA TOWN SECTION	
Project No. 36AB-02-04M Scale: As Shown Date: MAY 2005	
SHEET No. 1 OF 1 SHEETS	



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
April 30, 2006
EXPIRATION DATE OF THE LICENSE

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