

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	3400B-01-10M	2010	18	28

LEGEND

4 each Type A Raised Pavement Markers
Type C Raised Pavement Markers @ 40'-0" o.c.

4 each Type J Raised Pavement Markers
Type D Raised Pavement Markers @ 40'-0" o.c.

8" White Stripe with Type C Raised Pavement Markers @ 20'-0" o.c. (Tape, Type I or Thermoplastic Extrusion)

4" Double Solid Yellow with Type D Raised Pavement Markers @ 20'-0" o.c. (Tape, Type I or Thermoplastic Extrusion)

4" Double Solid Yellow Stripes with Type H Raised Pavement Markers @ 20'-0" o.c. (Tape, Type II or Thermoplastic Extrusion)

4" Yellow Edge Stripe with Type H Raised Pavement Markers @ 40'-0" o.c. (Tape, Type II or Thermoplastic Extrusion)

4" Double Solid White Stripes with Type C Raised Pavement Markers @ 20'-0" o.c. (Tape, Type I or Thermoplastic Extrusion)

Lane Change Restriction Marking
4 each Type A Raised Pavement Markers
Type C Raised Pavement Markers @ 20'-0" o.c.
4" White Stripe (Tape, Type I or Thermoplastic Extrusion)

4" or 8" White Edge Stripe with Type C Raised Pavement Markers @ 40'-0" o.c. (Tape, Type II or Thermoplastic Extrusion)

4" White Guide Lines (Tape, Type III or Thermoplastic Extrusion except for bus bays)

Transverse Median Marking (Tape, Type II or Thermoplastic Extrusion)

Transverse Shoulder Marking (Tape, Type II or Thermoplastic Extrusion)

Channelizing Island or Deceleration Lane Gore (Tape, Type II or Thermoplastic Extrusion)

Crosswalk and Stop Line. All Stop Lines shall be 10'-0" from Crosswalk unless otherwise noted. The circled number indicates the number of lanes for payment (Tape, Type III or Thermoplastic Extrusion)

Pavement Arrow (Tape, Type III or Thermoplastic Extrusion)

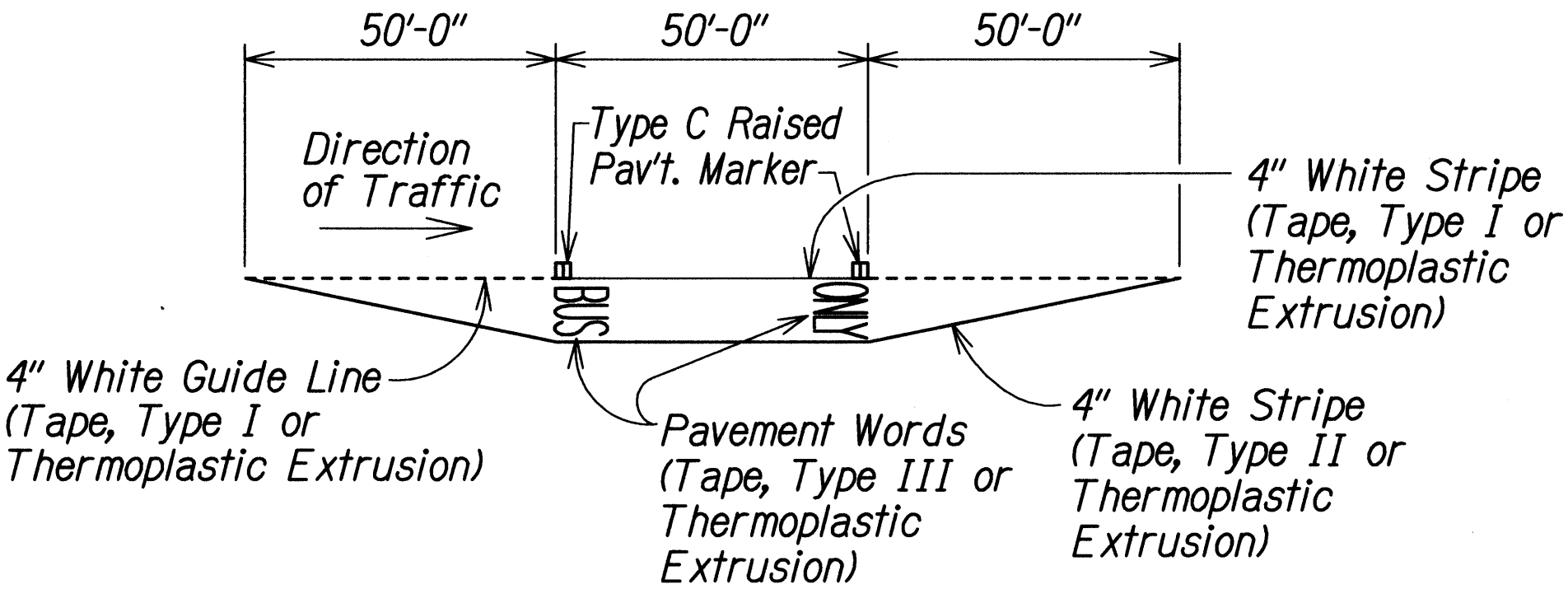
Pavement Word (Tape, Type III or Thermoplastic Extrusion)

4 Each Type J Raised Pavement Markers
Type D Raised Pavement Markers @ 40'-0" o.c.
Type H Raised Pavement Markers (Reflective Surface facing no-passing direction)
4" Single Solid Yellow Stripe (Tape, Type I or Thermoplastic Extrusion)

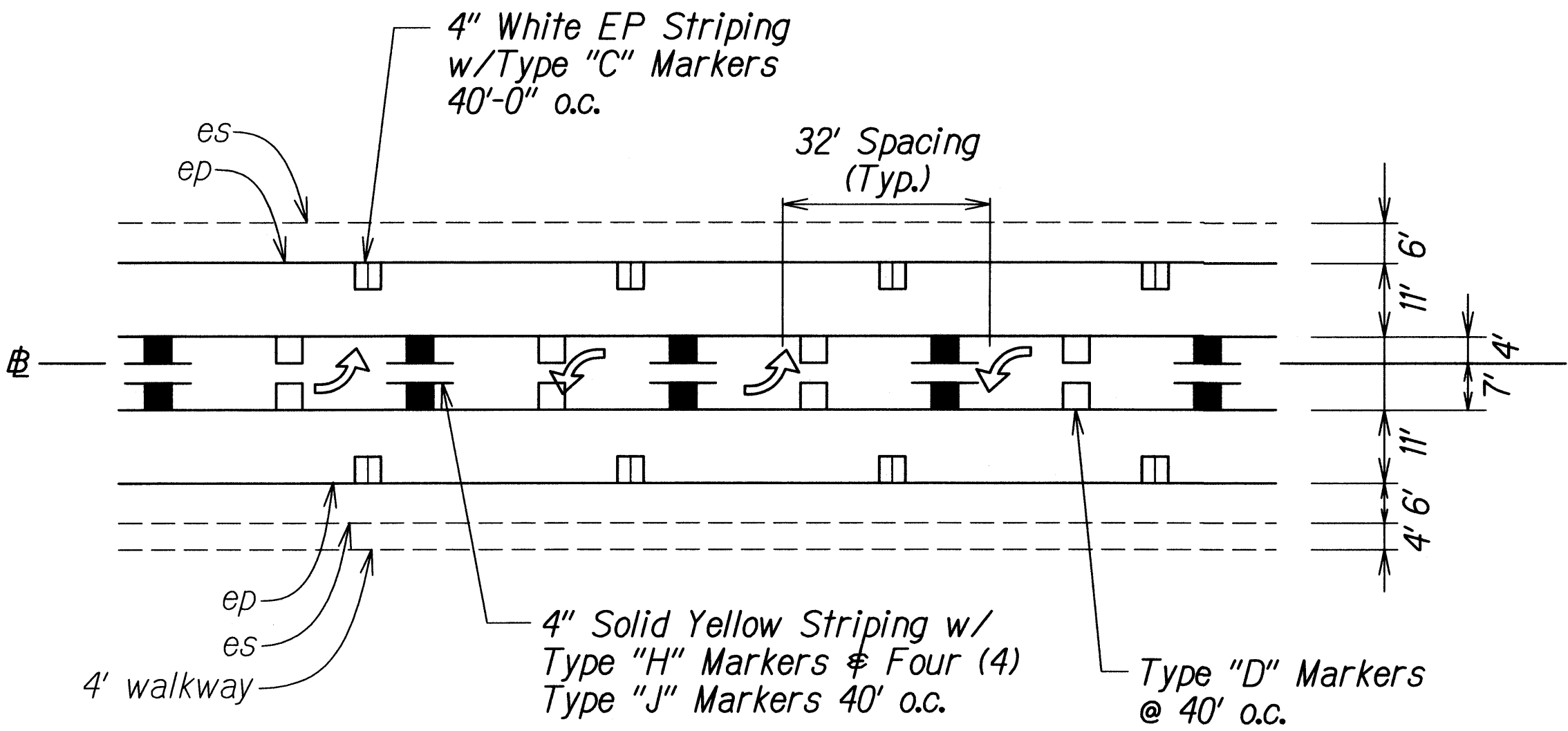
Extension of Edge Line, 4" Wide x 2'-0" Long White Stripe @ 10'-0" o.c. w/Type C Markers @ 40'-0" o.c. (Tape, Type III or Thermoplastic Extrusion)

NOTES

- Layout of pavement markings and striping shall be done by the Contractor and approved by the Engineer prior to any installation work.
- Existing pavement markings not incorporated in the final traffic pattern shall be removed as directed by the Engineer. Costs shall be incidental to the various pavement marking items.
- Raised pavement markers shall not be installed within crosswalks.
- Final locations of all signs shall be approved by the Engineer prior to any installation work.
- Existing signs not shown on these plans shall remain as posted unless otherwise directed by the Engineer. Removal and disposal of existing signs and/or posts as designated on these plans shall be incidental to the various signing items.
- Final locations of all Stop Lines shall be approved by the Engineer prior to installation.
- All pavement striping shall be as noted on the legend or plans and should be Thermoplastic Extrusion.
- All signs not shown in detail on this plan or the Standard Plans shall be made to match existing regulatory or warning signs.
- Rumble strip shall not be paid for separately but shall be paid under Item No. 629.2020 Type A pavement markers.



TYPICAL BUS BAY STRIPING
Not to Scale



DETAIL - TYPICAL DOUBLE LEFT TURN LANE
Scale: 1" = 20'-0"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKING
LEGEND, DETAILS & NOTES

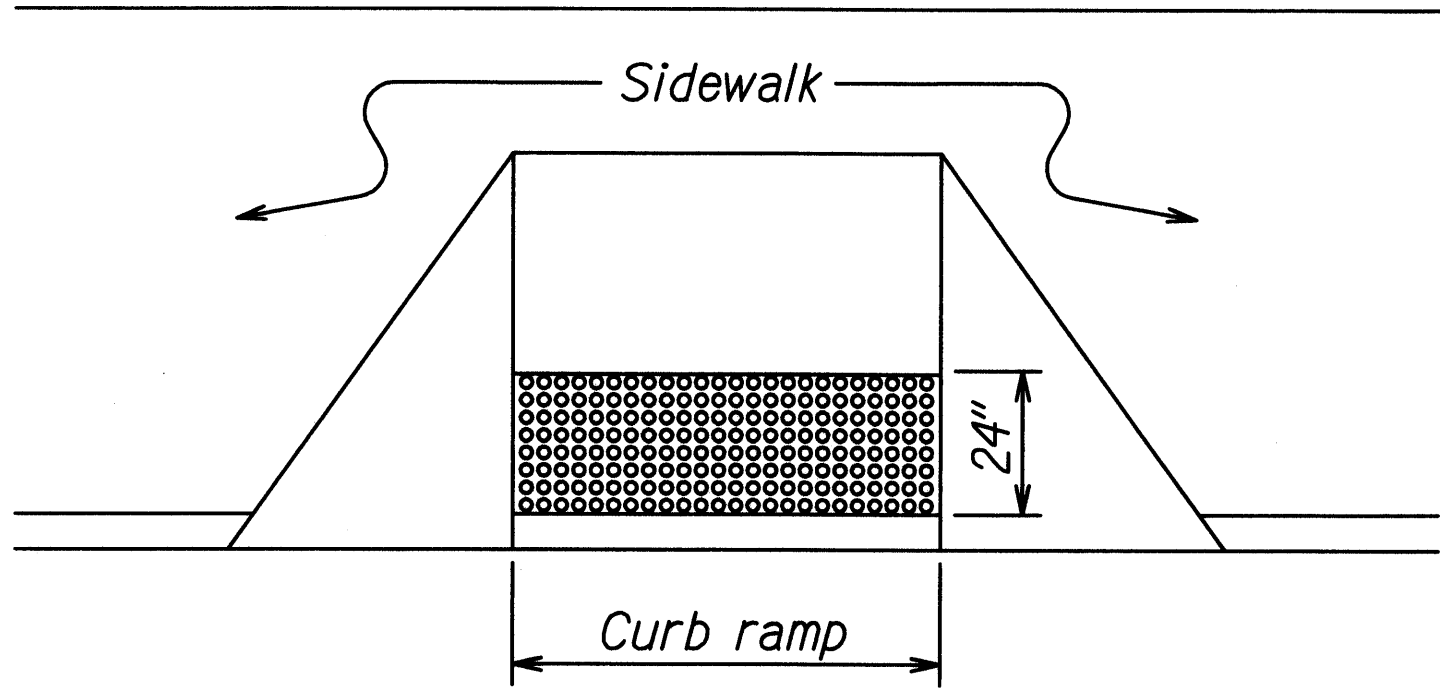
WAIEHU BEACH ROAD RESURFACING
Kahekili Highway to Kahului Beach Road
Project No. 3400B-01-10M

Scale: As Shown Date: March, 2010

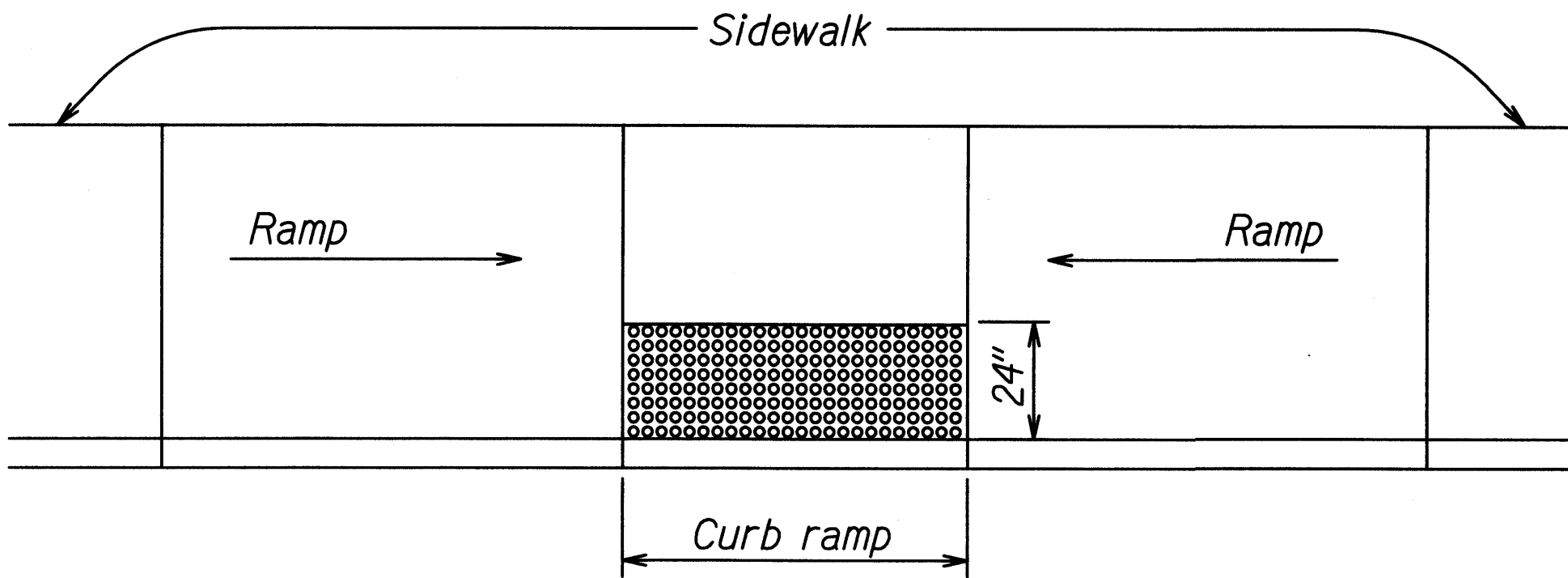
SHEET No. 1 OF 1 SHEETS

18

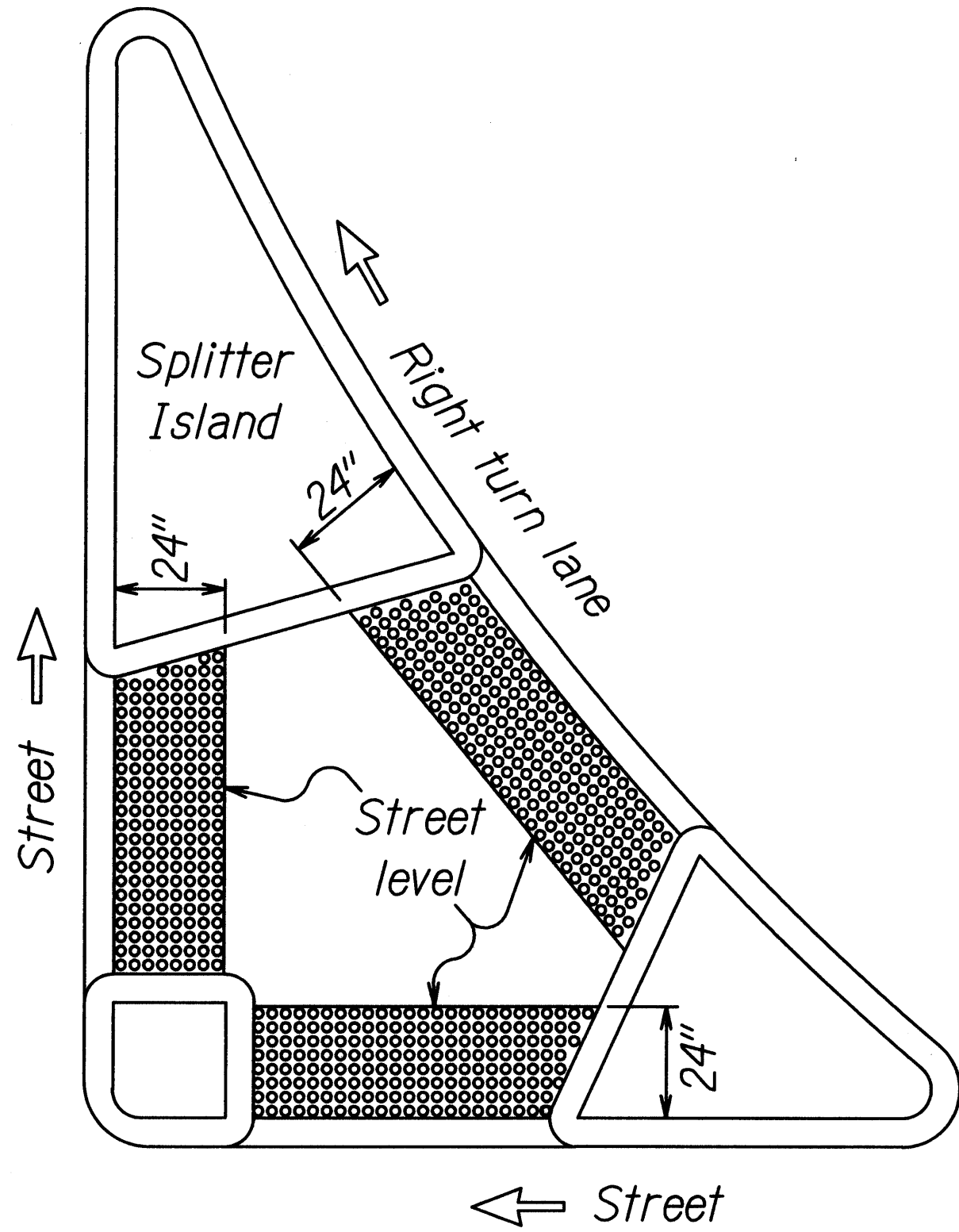
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	3400B-01-10M	2010	19	28



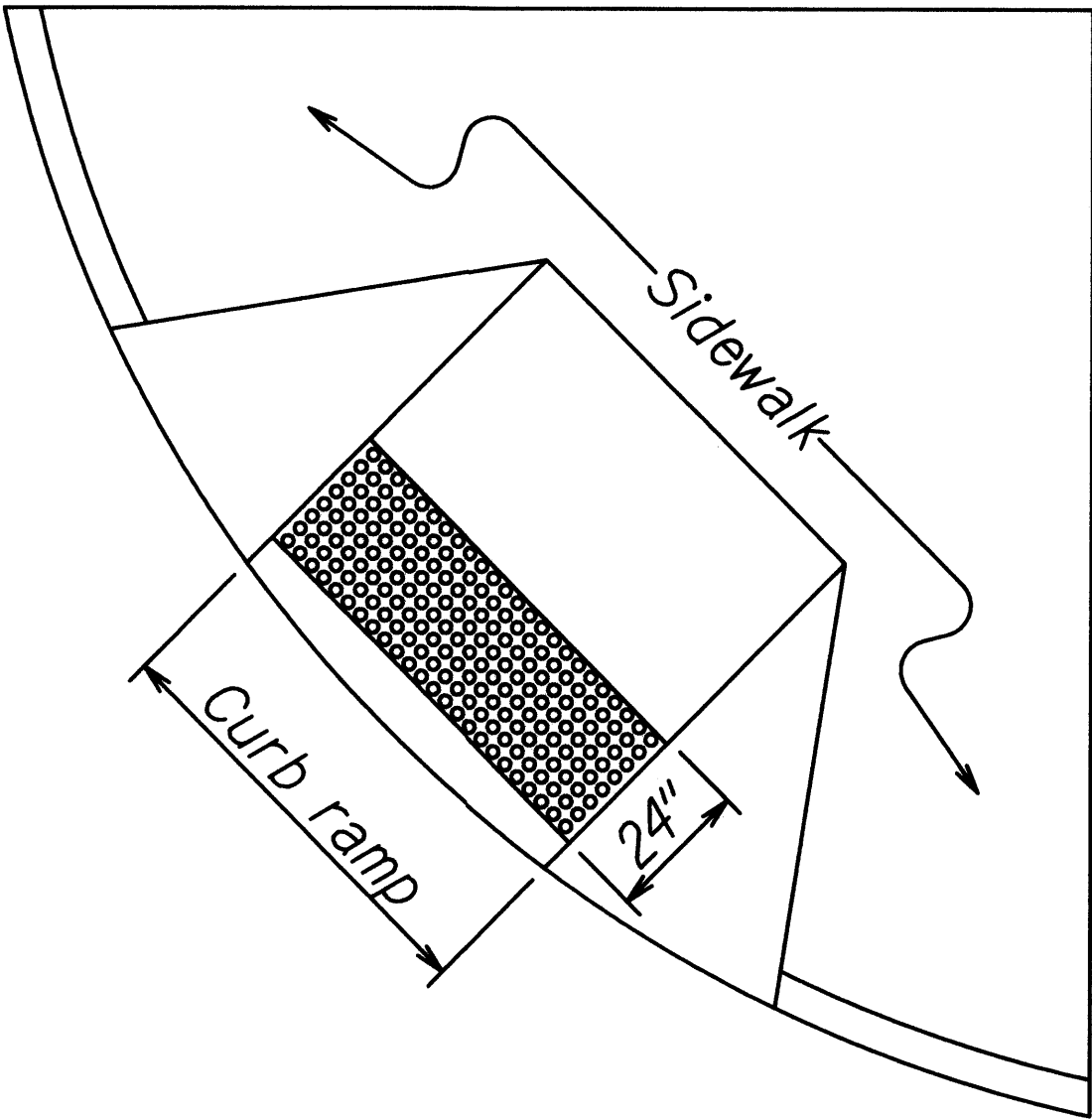
DETECTABLE WARNING AT CURB RAMP



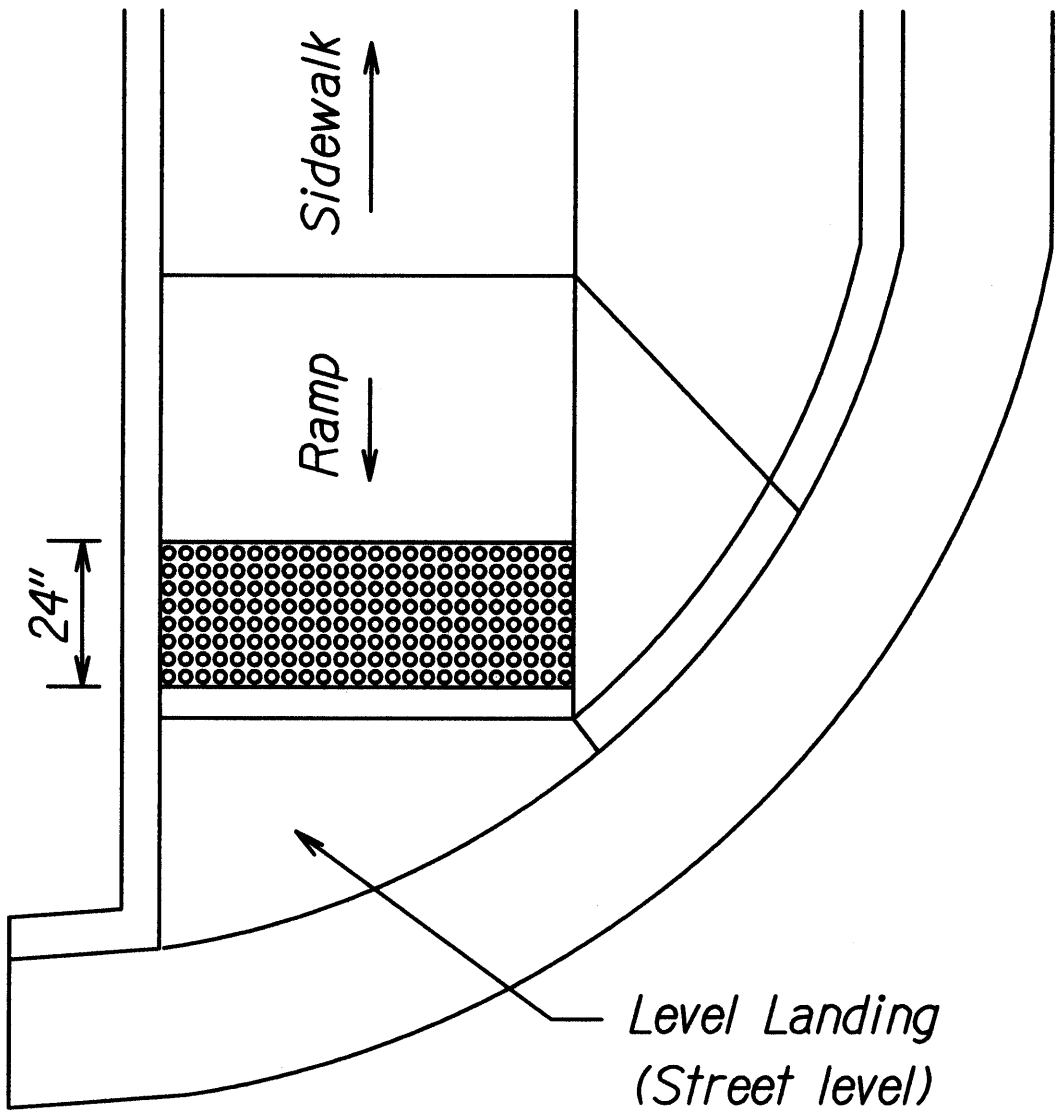
TRANSITION RAMP WITH DETECTABLE WARNING



REFUGE ISLAND WITH
DETECTABLE WARNING



SHARED CURB RAMP WITH
DETECTABLE WARNING



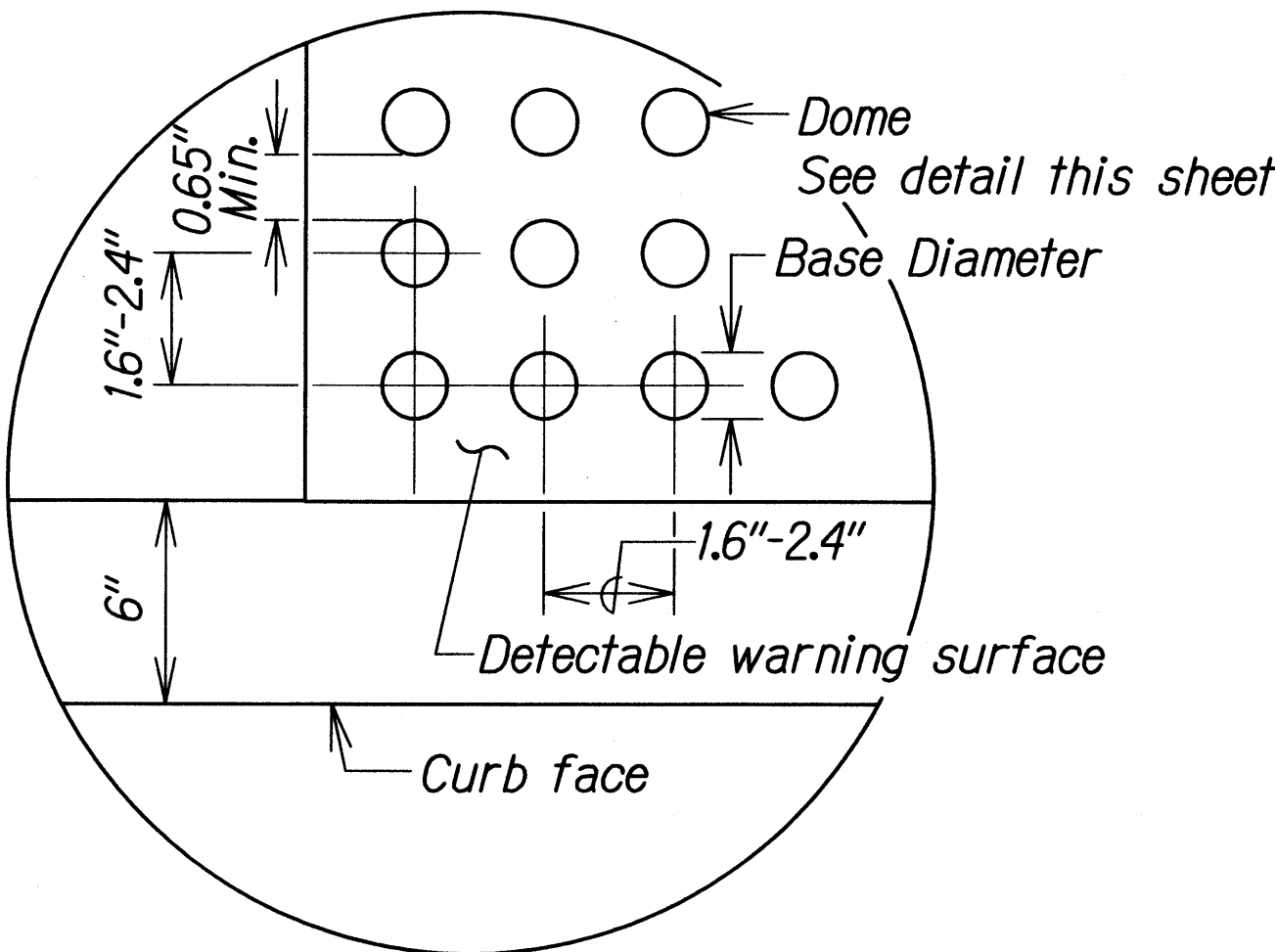
END OF SIDEWALK CURB RAMP WITH
DETECTABLE WARNING

TYPICAL INSTALLATION OF DETECTABLE WARNINGS

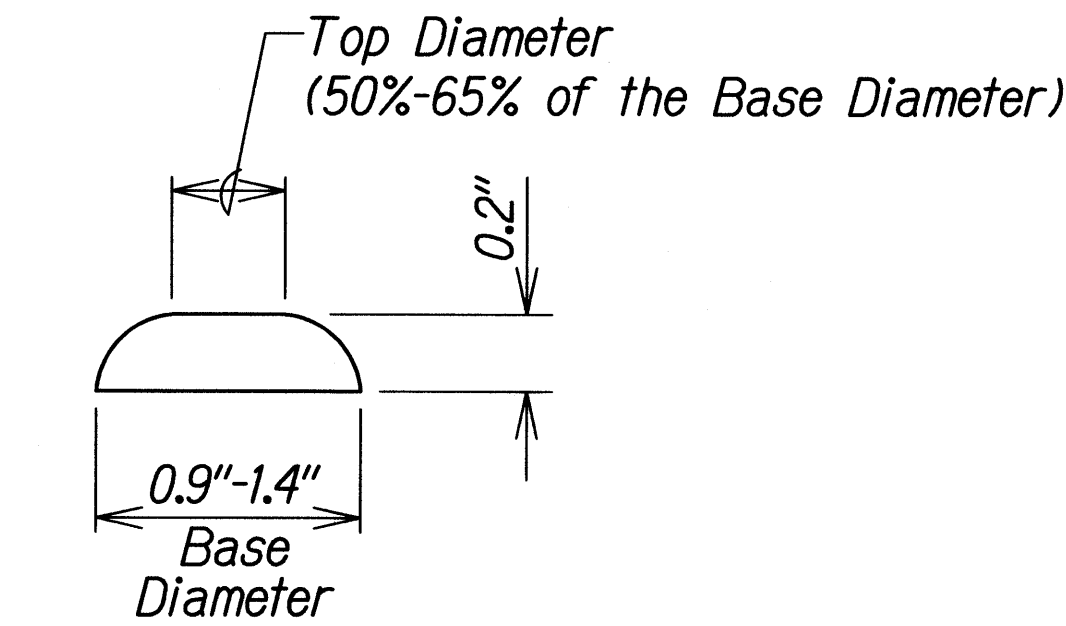
Not to Scale

NOTES:

- 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).
- 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.
- Domes shall be aligned on a square grid in the predominant direction of travel to permit wheels to roll between the domes.
- 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".
- The material used to provide visual contrast shall be an integral part of the detectable warning surface.
- 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

DETECTABLE WARNING DETAIL

Not to Scale

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

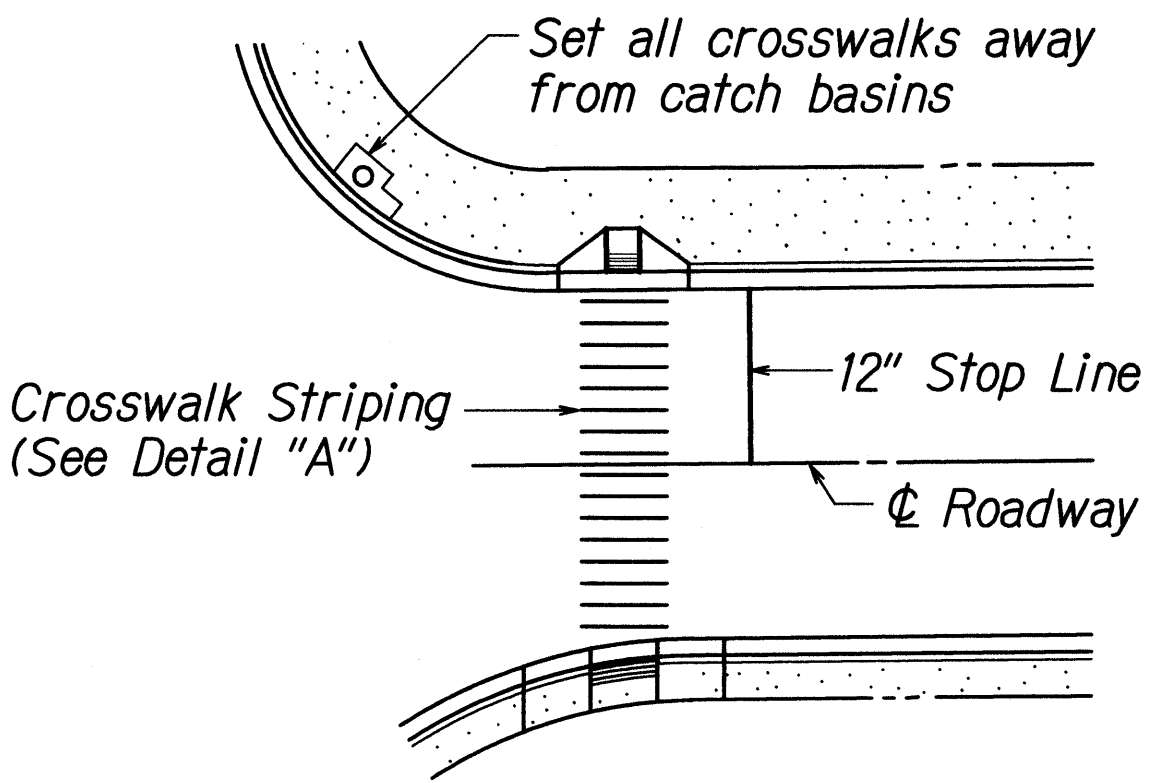
DETECTABLE WARNING DETAILS
WAIERU BEACH ROAD RESURFACING
Kahekili Highway to Kahului Beach Road
Project No. 3400B-01-10M
Scale: As Noted Date: March, 2010
SHEET No. 1 OF 2 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	3400B-01-10M	2010	20	28

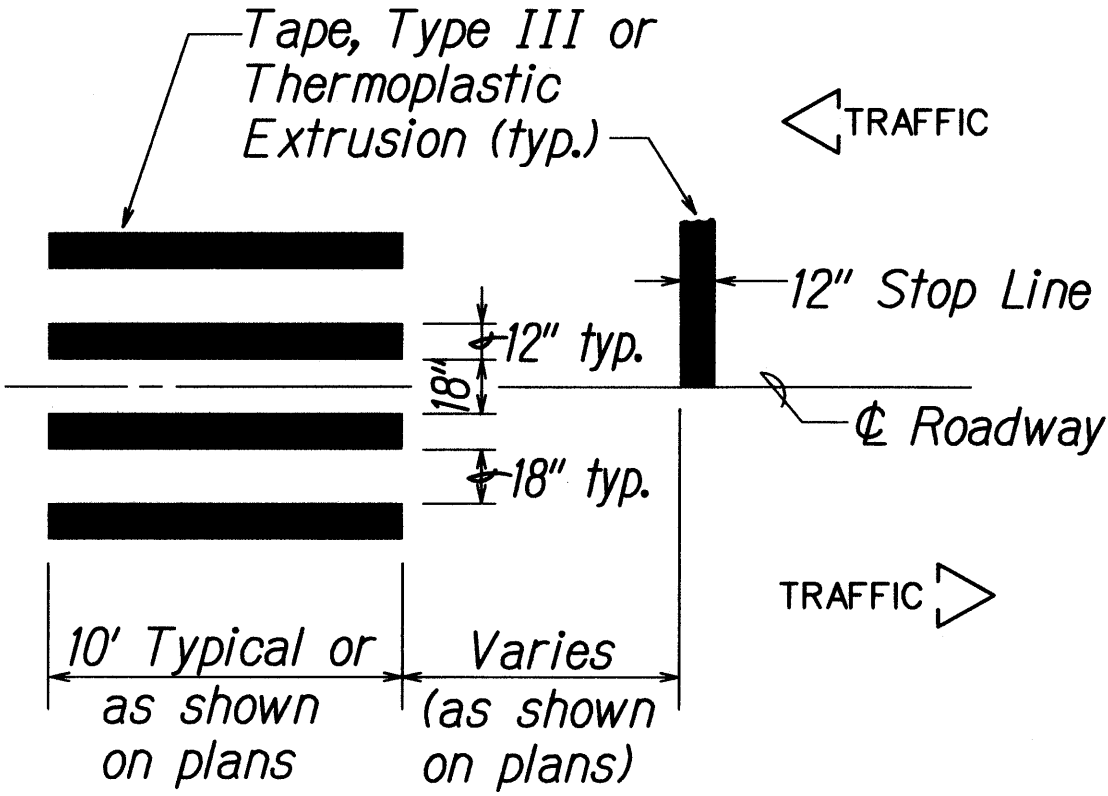
CURB RAMP AND SIDEWALK NOTES:

1. These typical details are intended as curb ramp guidelines for design and construction. These guidelines shall not replace site specific curb ramp plans.
2. A 2% maximum cross slope shall be maintained in the direction of pedestrian traffic.
3. Subject to field conditions, the Engineer shall determine the final location of curb ramps.
4. All pullboxes shall be installed away from the curb ramp and within the sidewalk/unpaved area to the maximum extent feasible.
5. 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 unless indicated otherwise.
6. Transitions from ramps to gutters and roadways shall be flush.
7. Curb ramps and sidewalks shall be constructed to eliminate ponding to the maximum extent feasible.
8. 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.
9. 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.
10. 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.
11. Construction joints are required to join curb ramps with sidewalks.
12. Unless otherwise noted, new gutters are required as shown.
13. All curb ramps shall be reinforced with 6x6 W1.4/W1.4 welded wire fabric.
14. Surface of sidewalks and curb ramps shall be firm, stable, and slip-resistant. This includes the surfaces of pullboxes, valve covers, manhole covers, etc.
15. Bed course material is required for curb ramps, sidewalks, and gutters.
16. 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.
17. 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.
18. If possible, install utility poles, fire hydrants, light poles, sign posts, pullboxes, etc. off of sidewalk but within the right-of-way.

19. 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.
20. 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 Portland Cement Concrete shall be based on 1/4 inch per 10 ft. (±0.2%). Remedial measures will not be accepted.



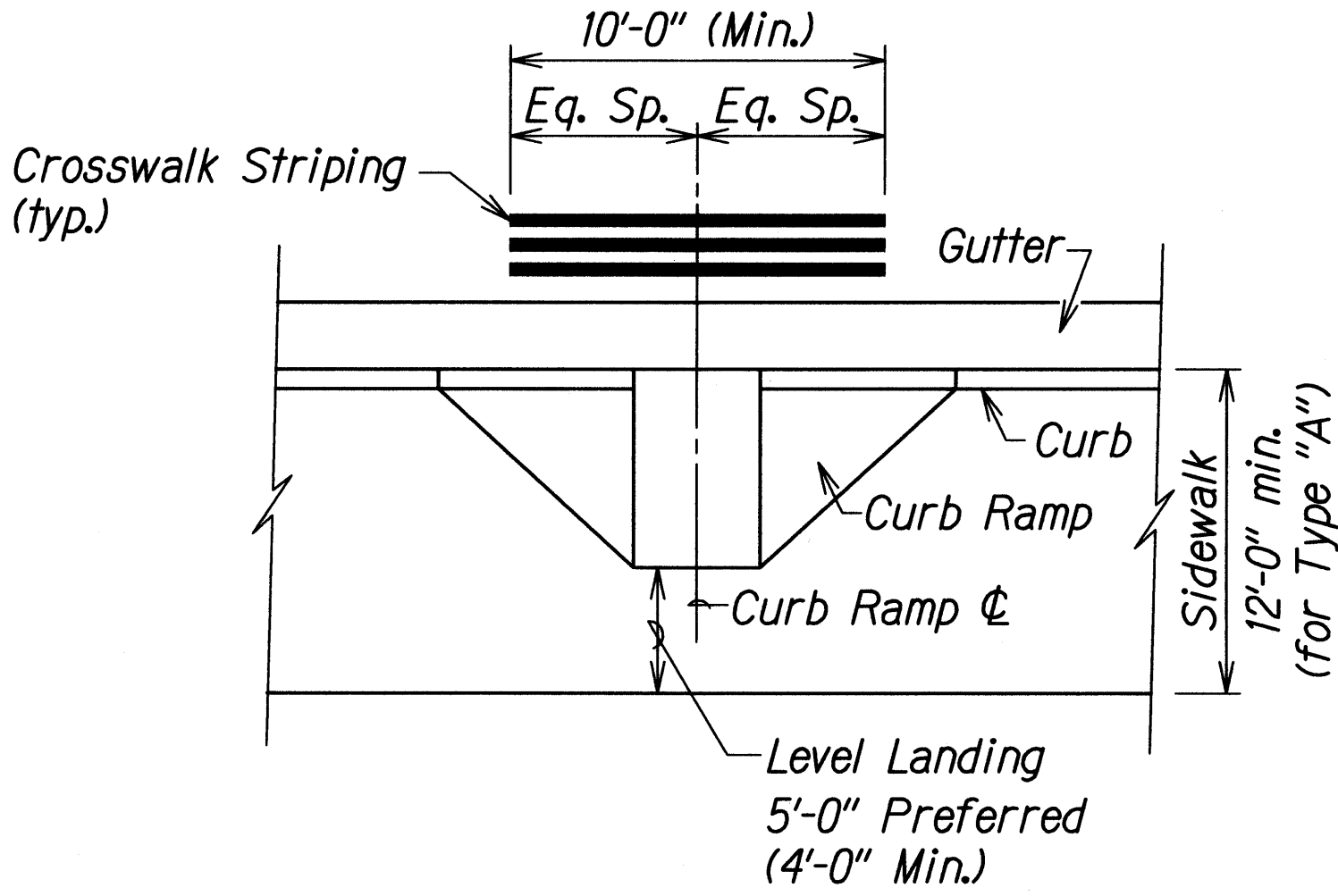
PLAN



DETAIL "A"

CROSSWALK STRIPING DETAIL

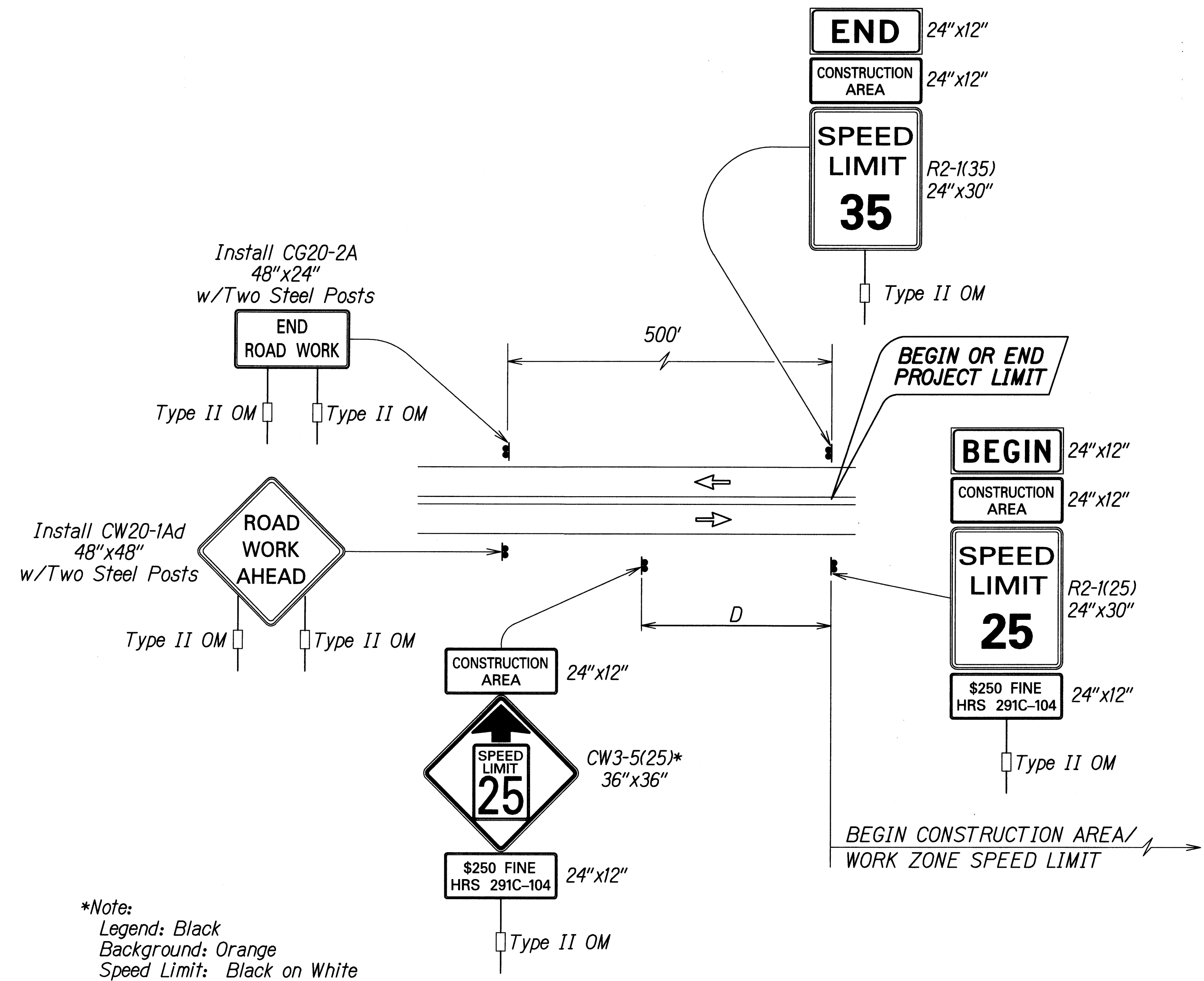
NOTE:
Longitudinal lines shall be parallel to traffic flow.



TYPICAL CROSSWALK STRIPING
AT CURB RAMP

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
<u>CURB RAMP AND SIDEWALK NOTES</u>	
<u>WAIIEHU BEACH ROAD RESURFACING</u>	
<u>Kahekili Highway to Kahului Beach Road</u>	
<u>Project No. 3400B-01-10M</u>	
Scale: As Noted	Date: March, 2010
SHEET No. 2 OF 2 SHEETS	

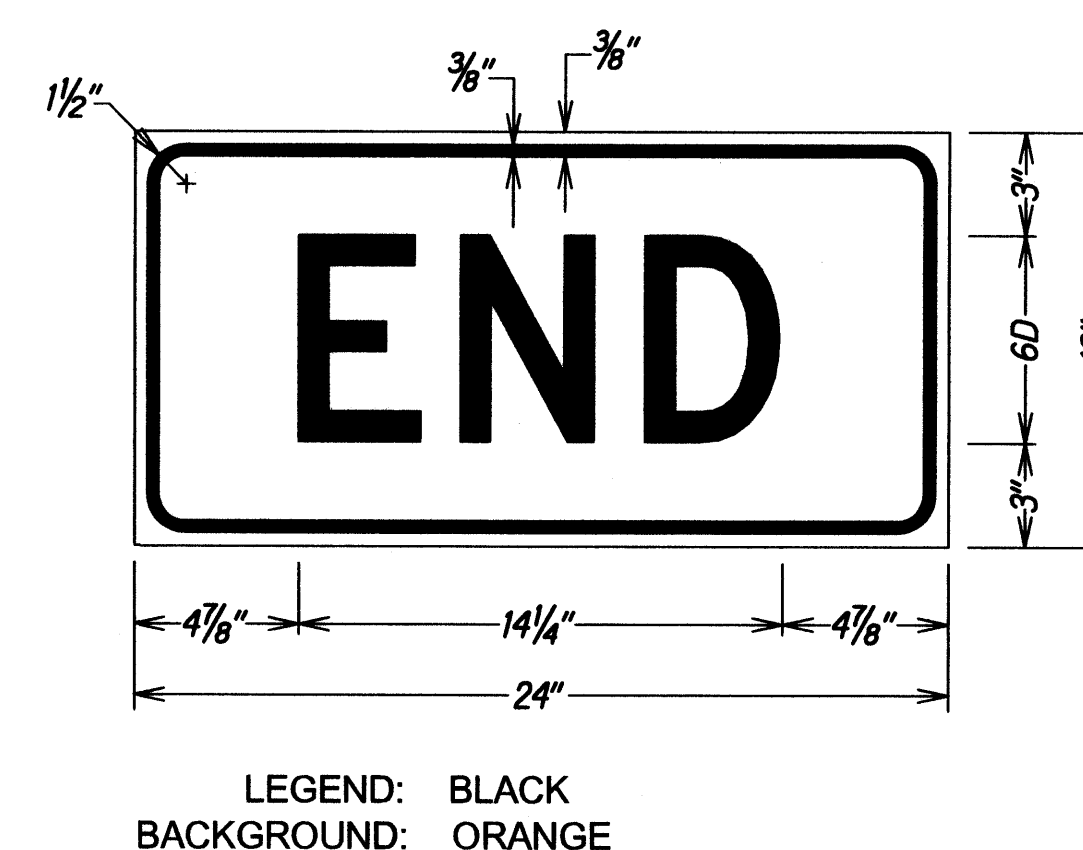
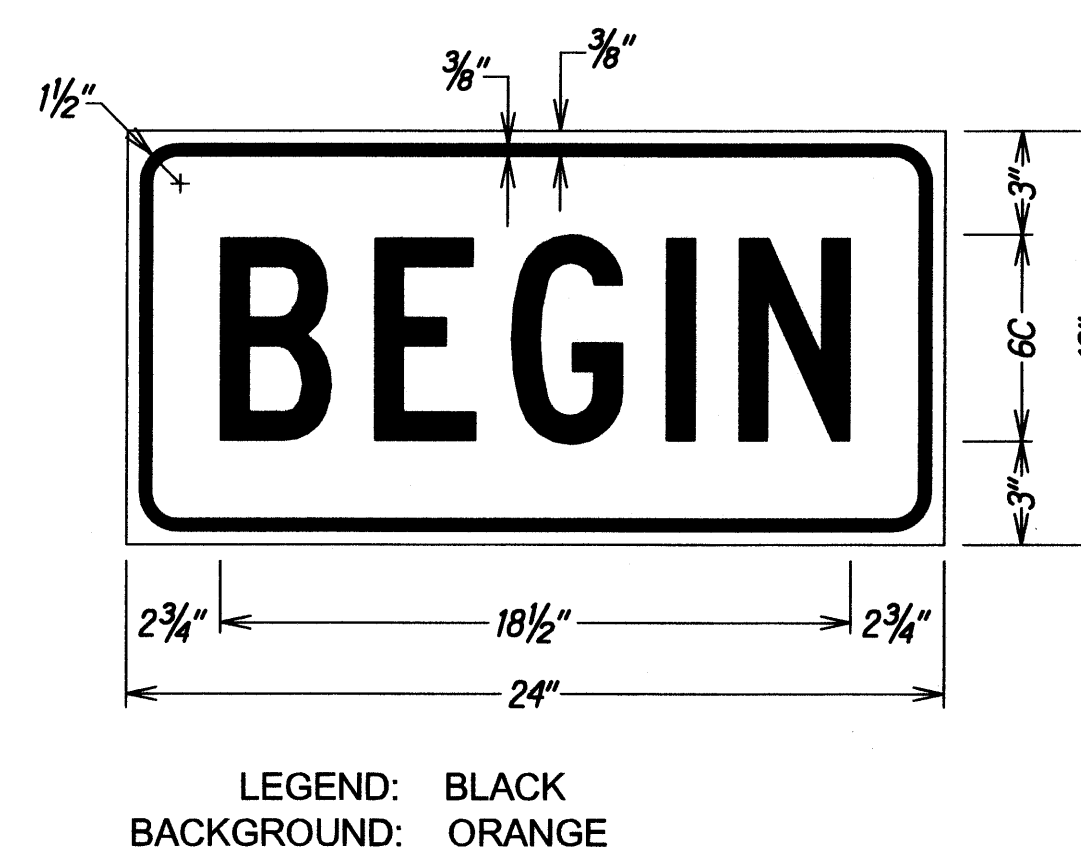
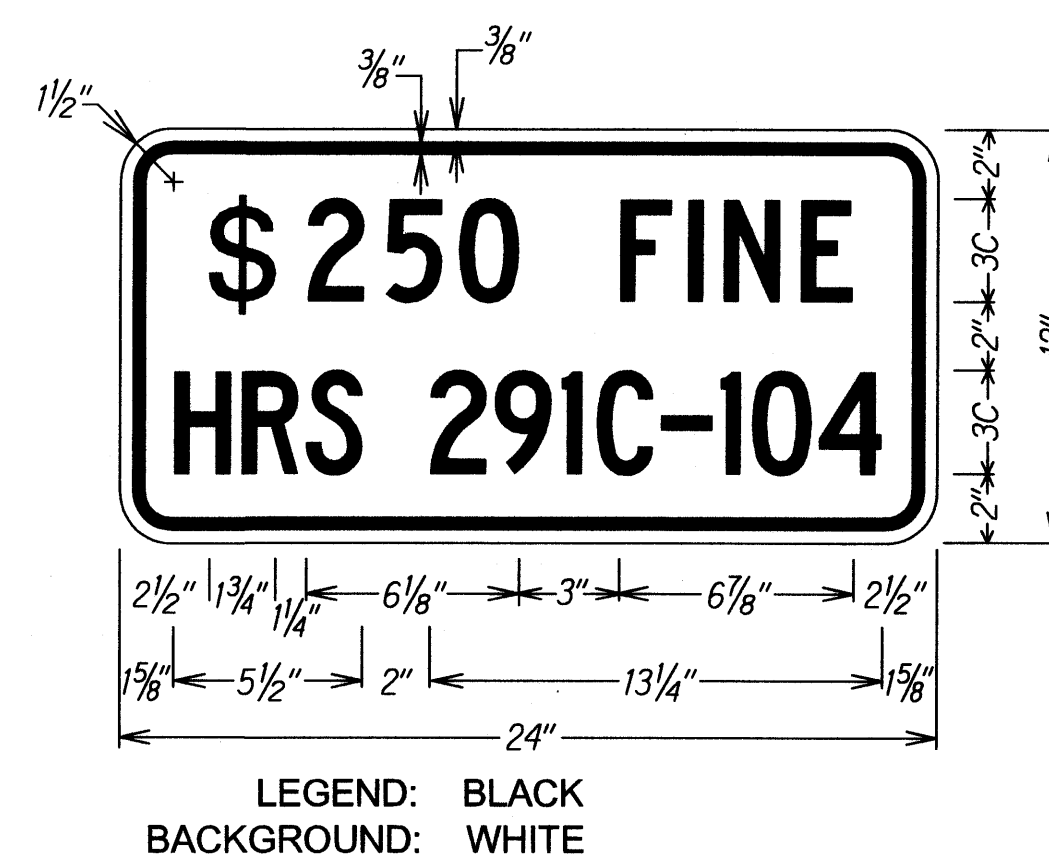
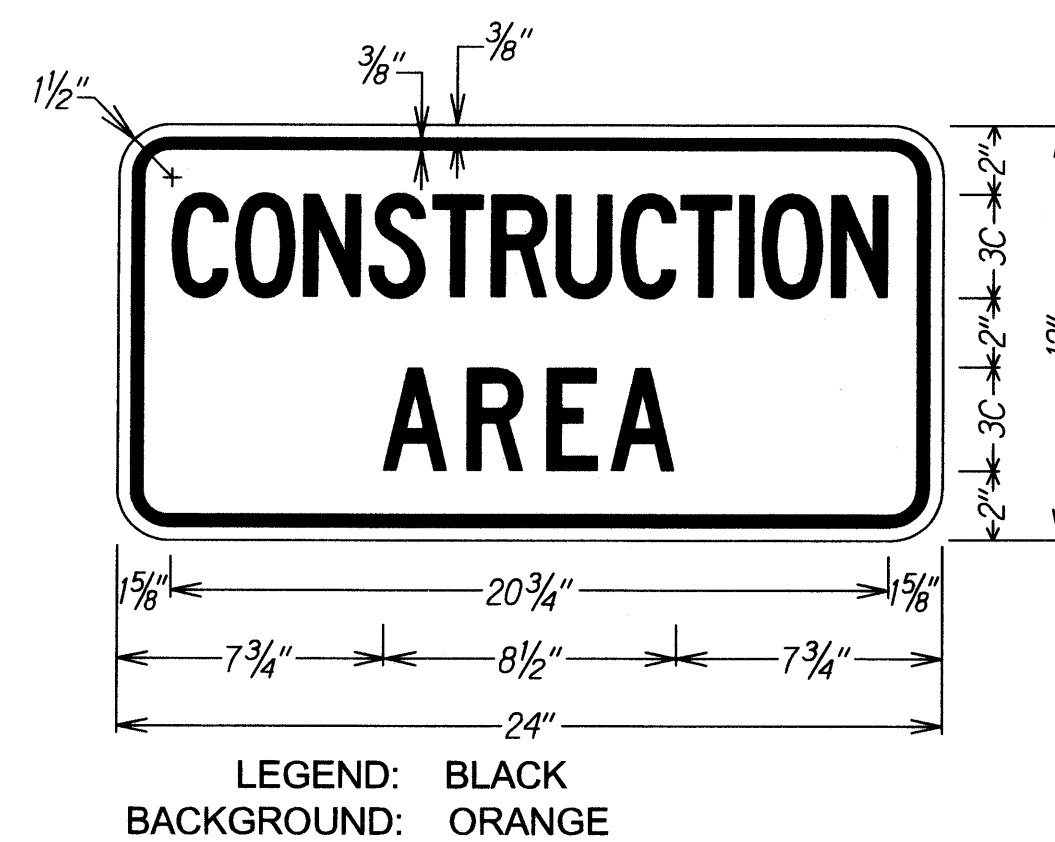
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	3400B-01-10M	2010	21	28



**TYPICAL DETAIL FOR CONSTRUCTION SIGNS
ON TWO LANE OR MULTILANE UNDIVIDED LOW SPEED HIGHWAY**

Work Zone Notes:

1. This Work Zone Sign Plan is intended for use on long-term stationary work zones/construction phases (3 days or more). All work zones or construction phases less than 3 days duration will use Traffic Control Plans shown in Section 645 of the Special Provisions.
2. All existing regulatory speed limit signs with posts within the work zone/project limits shall be removed and replaced with work zone speed limit sign assemblies (R2-1(25) and CW3-5(25) with "CONSTRUCTION AREA" and "\$250 FINE HRS 291C-104" Supplemental Signs).
3. Construction sign assemblies shall be installed on both the approaching and trailing ends of each work zone as shown on this plan.
4. Each construction warning sign shall have a minimum of two (2) Type II OM. Each work zone speed limit assembly shall have a minimum of one (1) Type II OM. Installation of each Type II OM shall be considered incidental to Item No. 645.0100, Traffic Control.
5. Upon the completion of all physical work or as directed by the Engineer, all construction signs and work zone speed limit assemblies shall be removed. All speed limit signs and posts that were existing at the start of the project within the work zone/project limits shall be restored back to their original locations and configurations.
6. Placement of construction signs shall not obstruct the path of pedestrians and bicyclists.
7. The removal and restoration of existing regulatory speed limit signs with new posts along with the installation, maintenance and removal of work zone speed limit sign assemblies shall be considered incidental to Item No. 645.0100, Traffic Control.



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**LOW SPEED UNDIVIDED HIGHWAY
WORK ZONE SIGNING PLAN, NOTES&DETAILS**

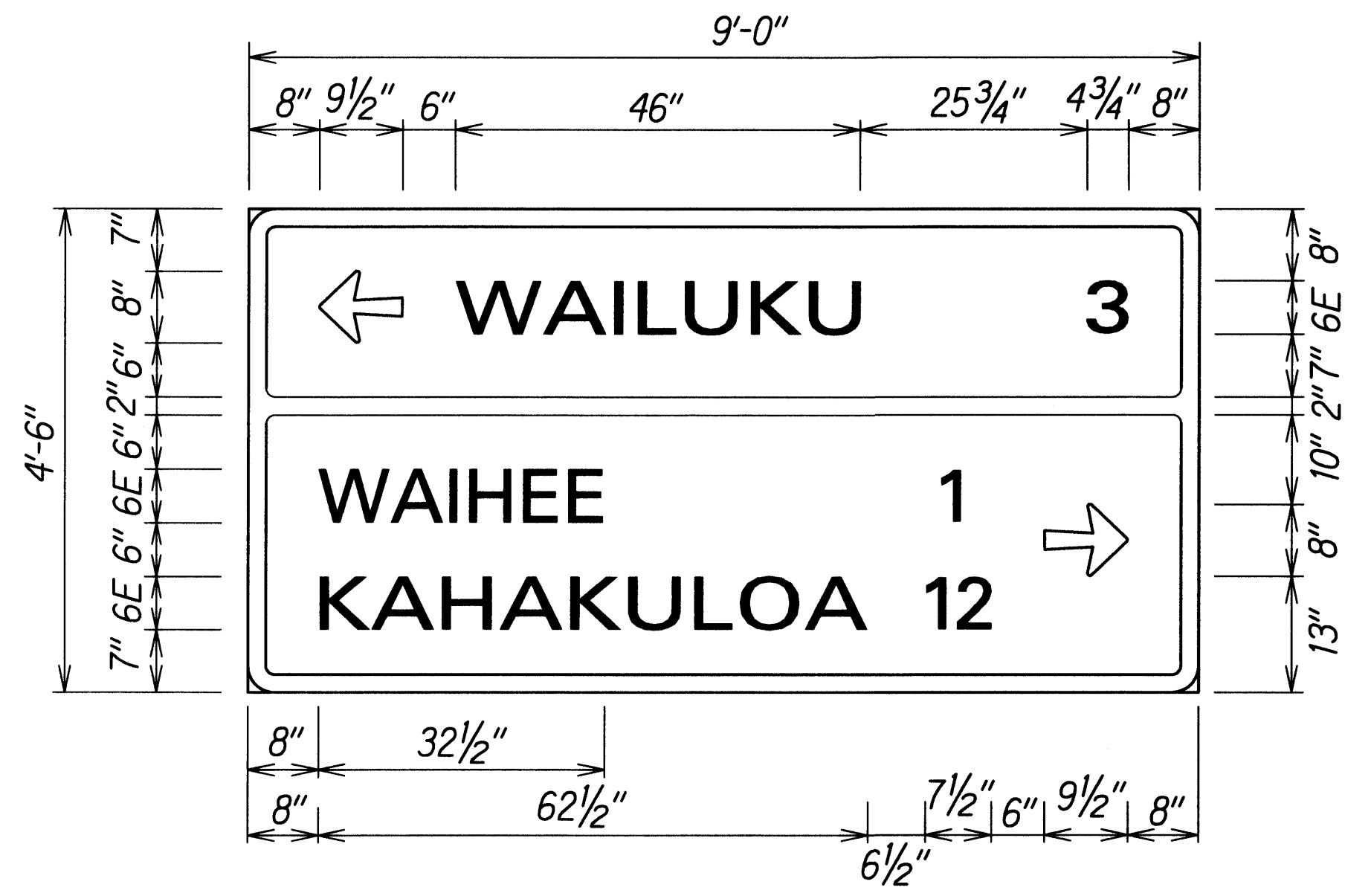
**WAIHEHU BEACH ROAD RESURFACING
Kahakili Highway to Kahului Beach Road**

Project No. 3400B-01-10M

Not To Scale Date: March, 2010

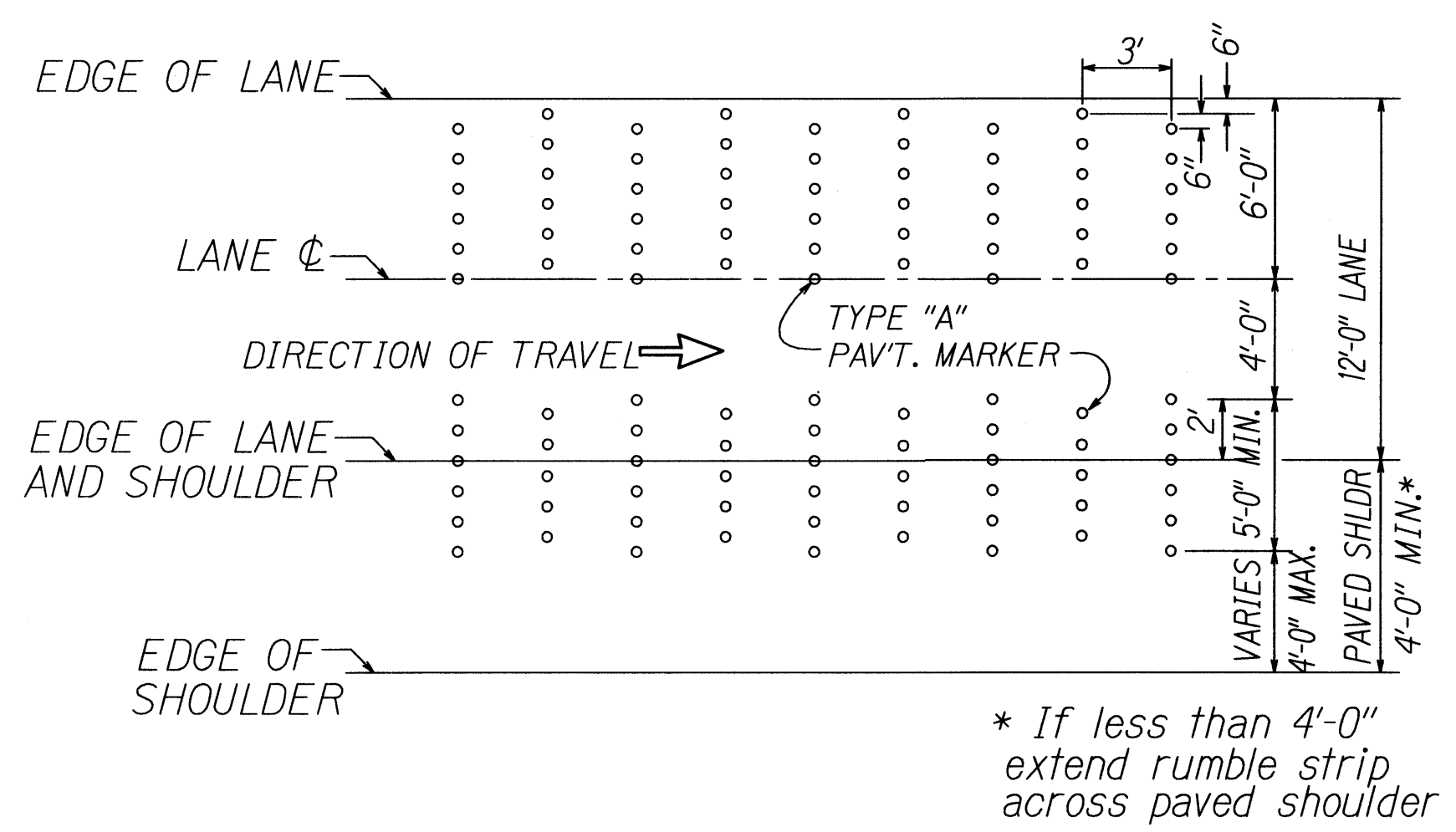
SHEET No. 1 OF 1 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	3400B-01-10M	2010	22	28



D-1
Scale: 3/4" = 1'-0"

Series 6E
Use: 3-Posts, 4.00 Lbs./Ft. Flanged Channel



RUMBLE STRIPS
12'-0" 2 LANE 2 WAY
Scale: 1/4" = 1'-0"

** If less than 4'-0"*
extend rumble strip
across paved shoulder

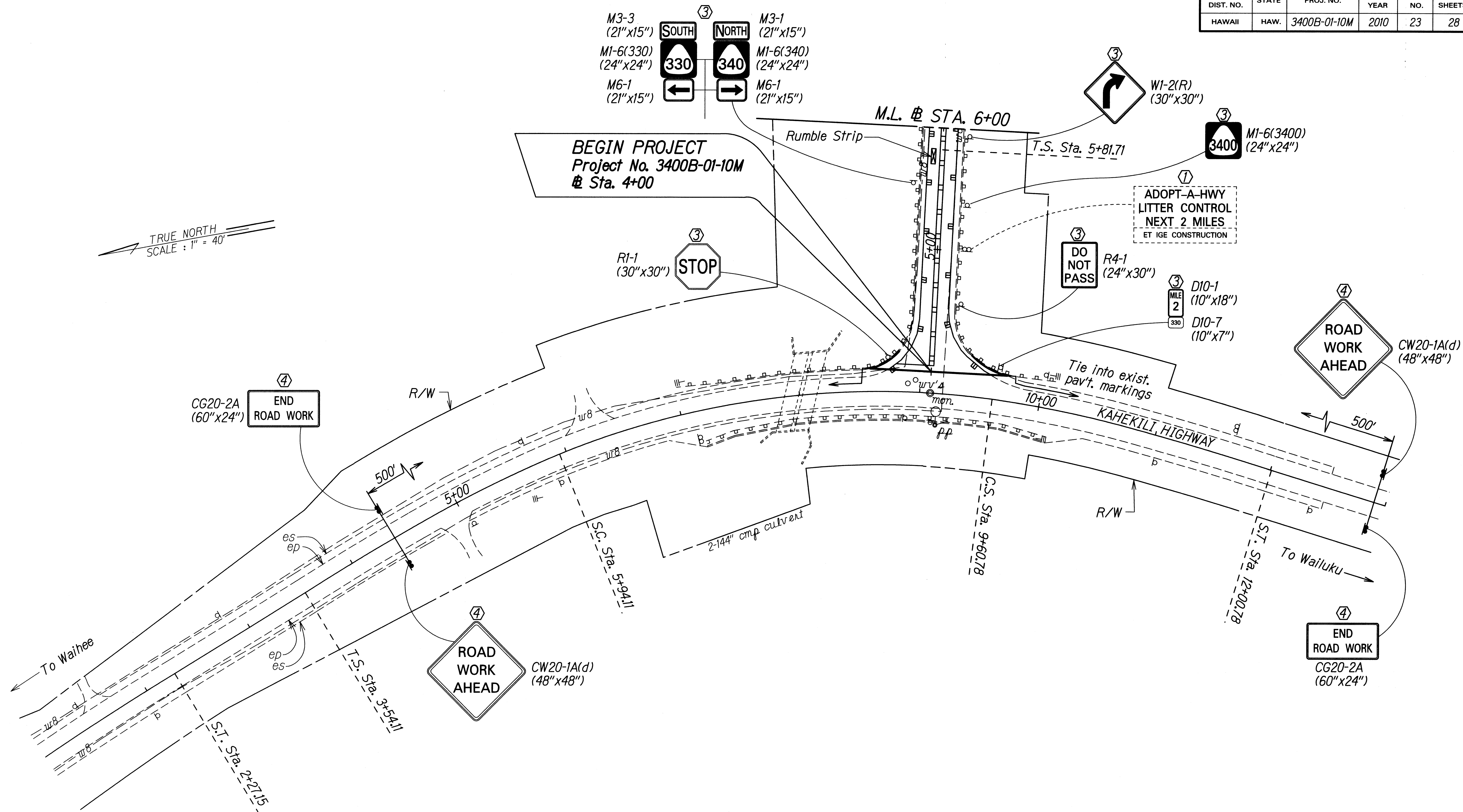
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	10/2/09
loggin: Fred	DESIGNED BY	
Nawalpudgn	CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGN PANEL LAYOUT
*** MISCELLANEOUS DETAILS**
WAIEHU BEACH ROAD RESURFACING
Kahekili Highway to Kahului Beach Road
Project No. 3400B-01-10M
Scale: As Shown Date: November, 2009

SHEET No. 1 OF 1 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	3400B-01-10M	2010	23	28



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

- KEY:
- ① Exist. Sign(s) & Post(s) to Remain
 - ② Remove Exist. Sign(s) & Post(s)
 - ③ Remove Exist. & Install New Sign(s) & Post(s)
 - ④ Install New Sign(s) & Post(s)

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

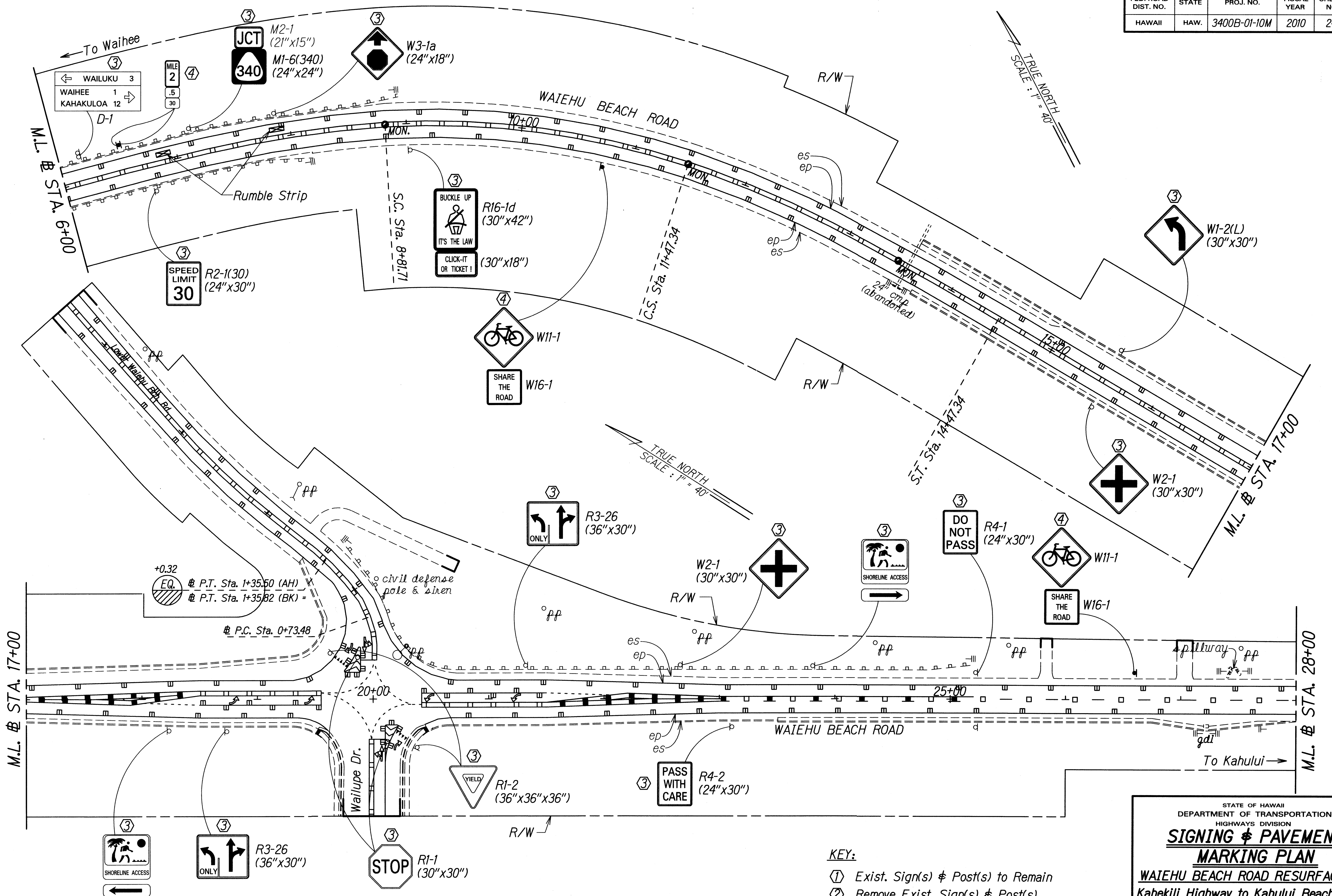
**SIGNING & PAVEMENT
MARKING PLAN**

WAIEHU BEACH ROAD RESURFACING
Kahekili Highway to Kahului Beach Road
Project No. 3400B-01-10M

Scale: 1" = 40' Date: March, 2010

SHEET No. 1 OF 5 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	3400B-01-10M	2010	24	28



SURVEY PLOTTED BY	DATE
DESIGNED BY	
NOTED BY	
CHECKED BY	

- KEY:
- ① Exist. Sign(s) & Post(s) to Remain
 - ② Remove Exist. Sign(s) & Post(s)
 - ③ Remove Exist. & Install New Sign(s) & Post(s)
 - ④ Install New Sign(s) & Post(s)

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

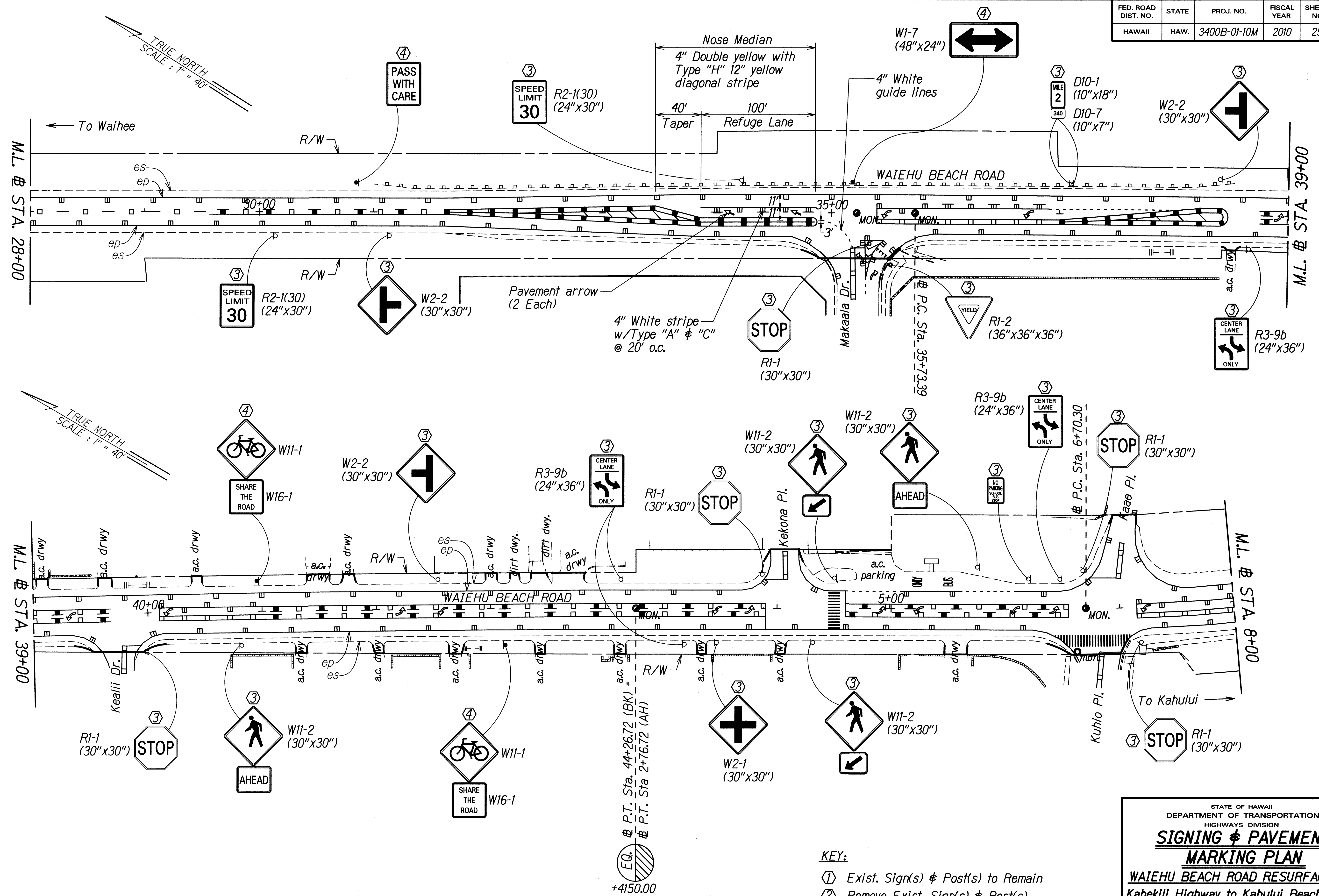
SIGNING & PAVEMENT MARKING PLAN

WAIEHU BEACH ROAD RESURFACING
Kahekili Highway to Kahului Beach Road
Project No. 3400B-01-10M

Scale: 1" = 40' Date: March, 2010

SHEET No. 2 OF 5 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	3400B-01-10M	2010	25	28



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DESIGNED BY	
QUANTITIES BY	CHECKED BY	
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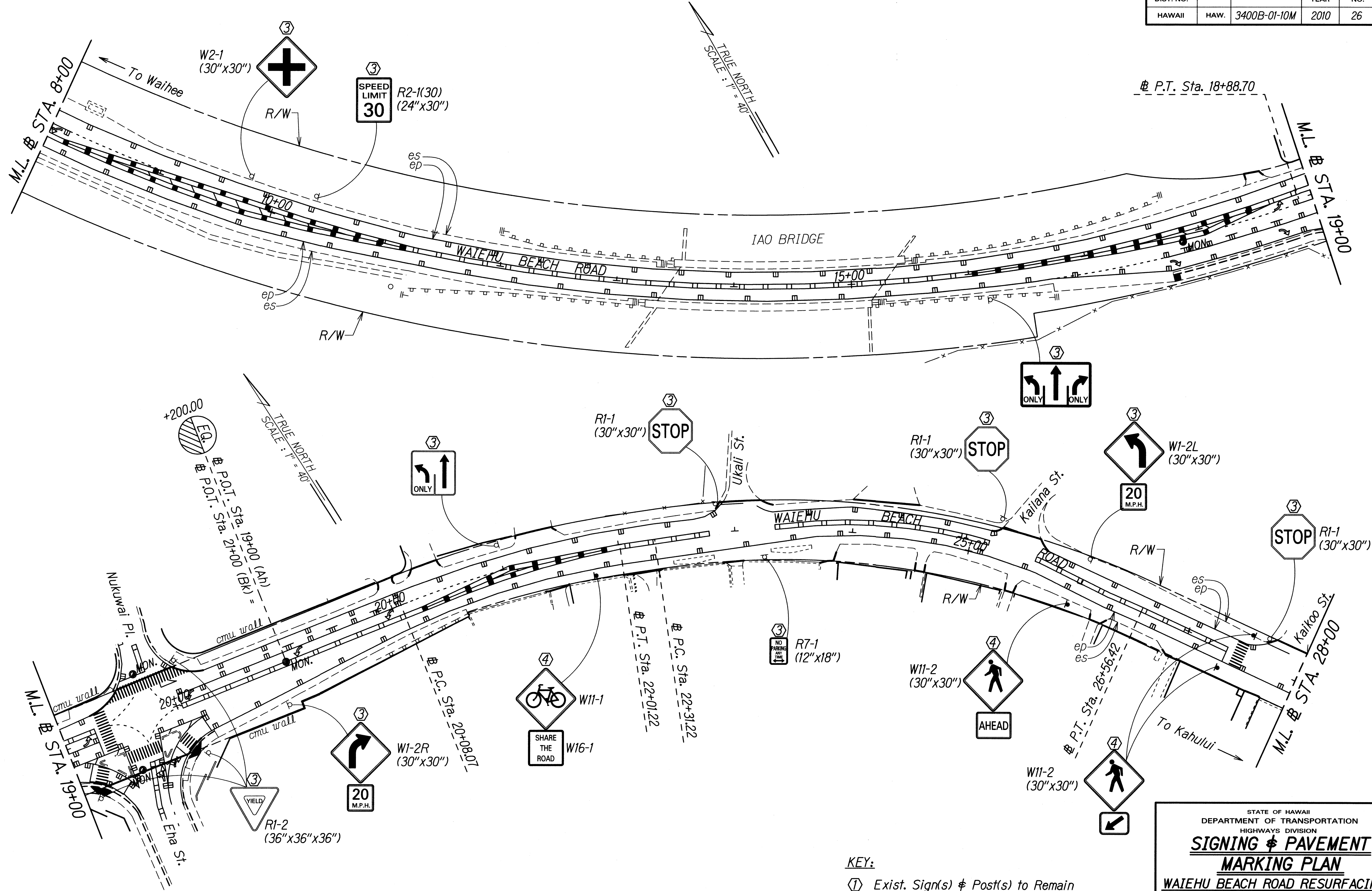
- KEY:
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 - ② Remove Exist. Sign(s) & Post(s)
 - ③ Remove Exist. & Install New Sign(s) & Post(s)
 - ④ Install New Sign(s) & Post(s)

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNING & PAVEMENT MARKING PLAN
WAIEHU BEACH ROAD RESURFACING
Kahekili Highway to Kahului Beach Road
Project No. 3400B-01-10M
Scale: 1" = 40'
Date: March, 2010

SHEET No. 3 OF 5 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	3400B-01-10M	2010	26	28



DATE	_____
SURVEY PLOTTED BY	_____
DESIGNED BY	_____
NOTED BY	_____
CHECKED BY	_____
ORIGINAL PLAN	_____
NOTE BOOK	_____
QUANTITIES BY	_____
CHECKED BY	_____

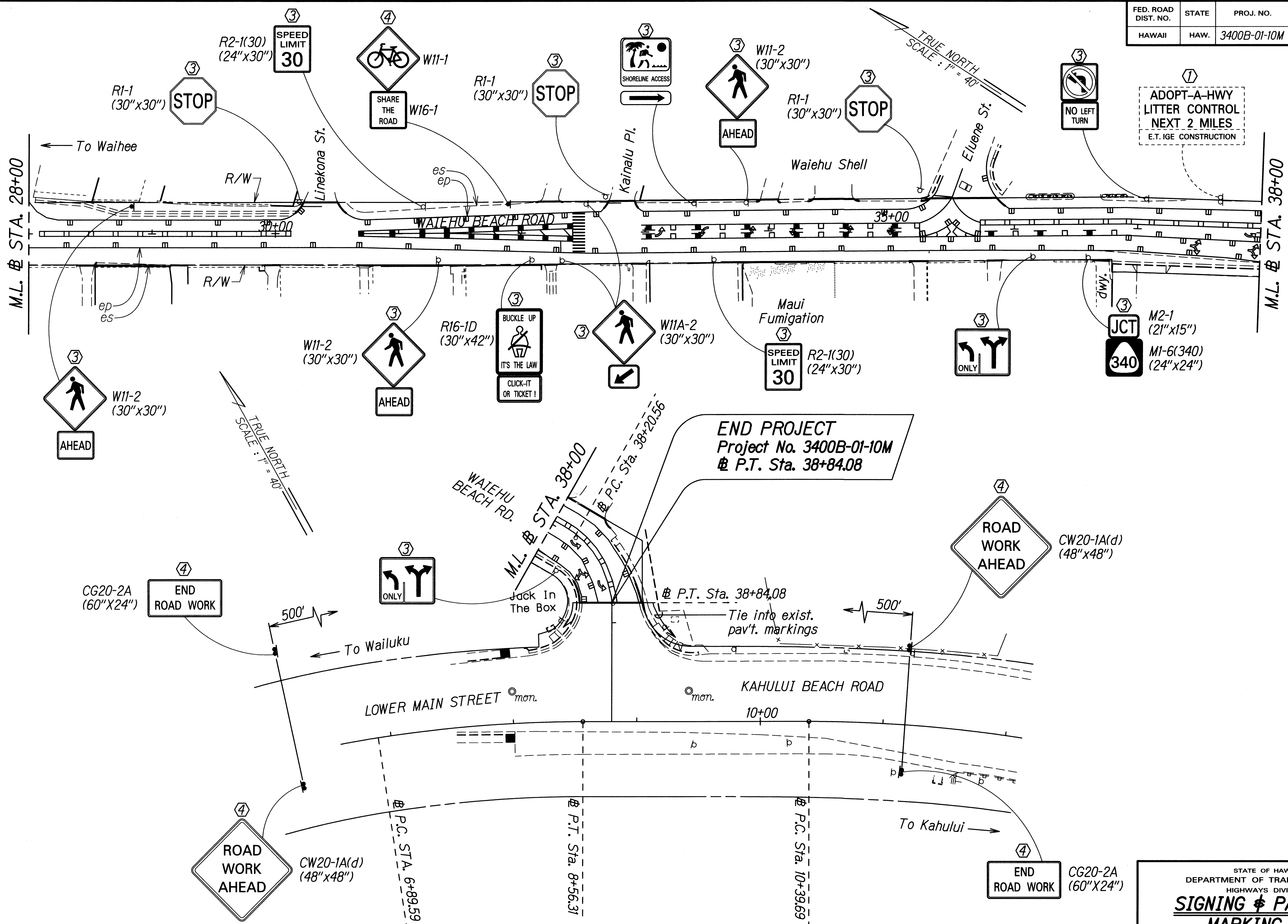
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 - ② Remove Exist. Sign(s) & Post(s)
 - ③ Remove Exist. & Install New Sign(s) & Post(s)
 - ④ Install New Sign(s) & Post(s)

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNING & PAVEMENT MARKING PLAN
WAIEHU BEACH ROAD RESURFACING
Kahekili Highway to Kahului Beach Road
Project No. 3400B-01-10M
Scale: 1" = 40'
Date: March, 2010

SHEET No. 4 OF 5 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	3400B-01-10M	2010	27	28



- KEY:
- ① Exist. Sign(s) & Post(s) to Remain
 - ② Remove Exist. Sign(s) & Post(s)
 - ③ Remove Exist. & Install New Sign(s) & Post(s)
 - ④ Install New Sign(s) & Post(s)

DATE	_____
SURVEY PLOTTED BY	_____
DESIGNED BY	_____
TRACED BY	_____
NOTE BOOK	_____
QUANTITIES BY	_____
CHECKED BY	_____
NO.	_____

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNING & PAVEMENT MARKING PLAN

WAIEHU BEACH ROAD RESURFACING
Kahekili Highway to Kahului Beach Road
Project No. 3400B-01-10M

Scale: 1" = 40' Date: March, 2010

SHEET No. 5 OF 5 SHEETS

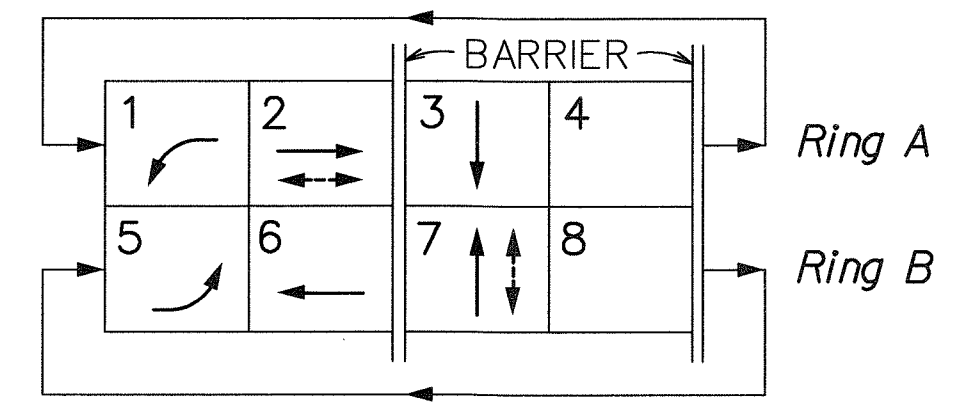
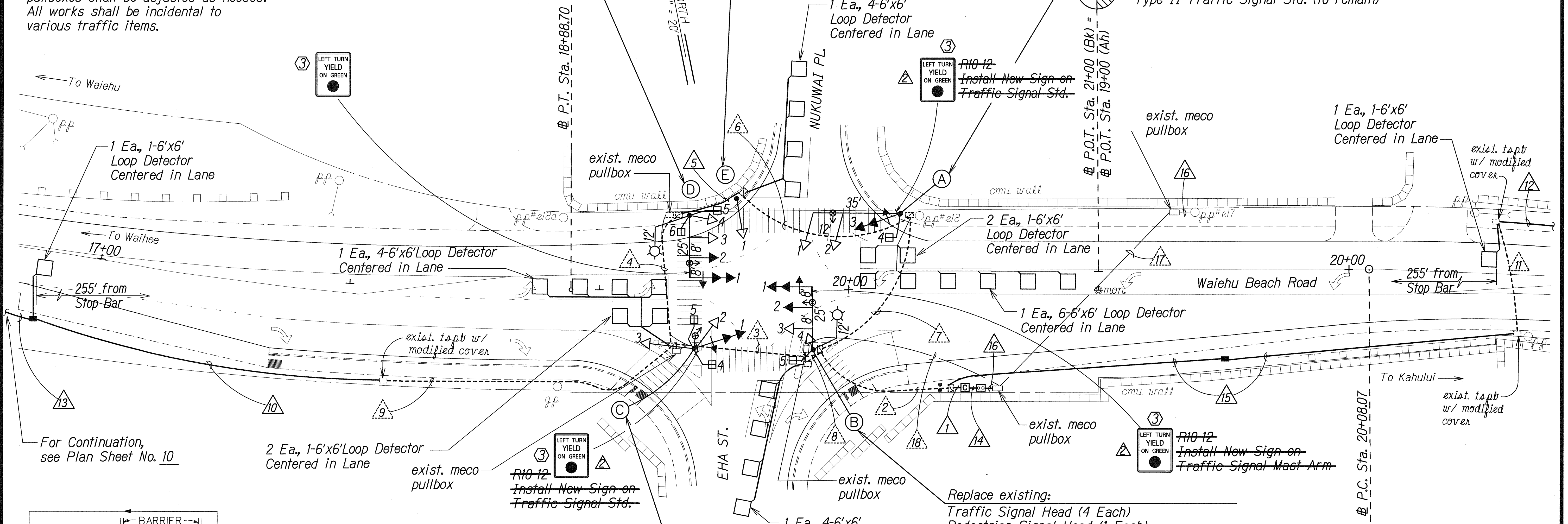
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	3400B-01-10M	2010	ADD.28	28

NOTES:
 All existing traffic signal heads, pedestrian signal heads and pedestrian push button appurtenances, conductors, all loop detectors, loop lead cables shall be replaced. All pullboxes shall be adjusted as needed. All works shall be incidental to various traffic items.

Replace existing:
 Traffic Signal Head (4 Each)
 Pedestrian Signal Head (2 Each)
 Pedestrian Push Button w/direction (1 Each)
 Type III Traffic Signal Std. (to remain)

Replace existing:
 Traffic Signal Head (1 Each)
 Pedestrian Push Button w/direction (1 Each)
 Type I Traffic Signal Std. (to remain)

Replace existing:
 Traffic Signal Head (3 Each)
 Pedestrian Signal Head (1 Each)
 Pedestrian Push Button w/direction (1 Each)
 Type II Traffic Signal Std. (to remain)

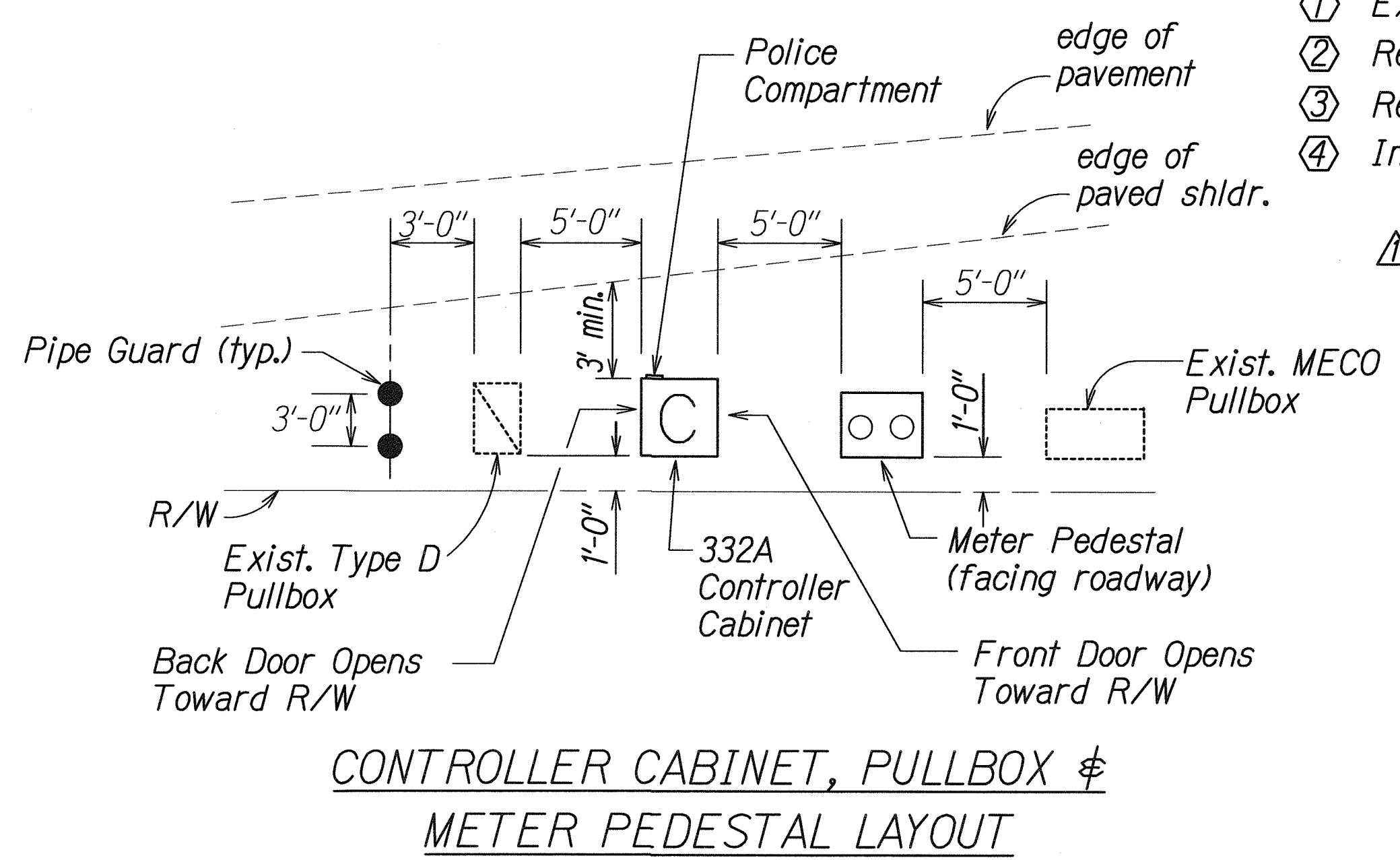
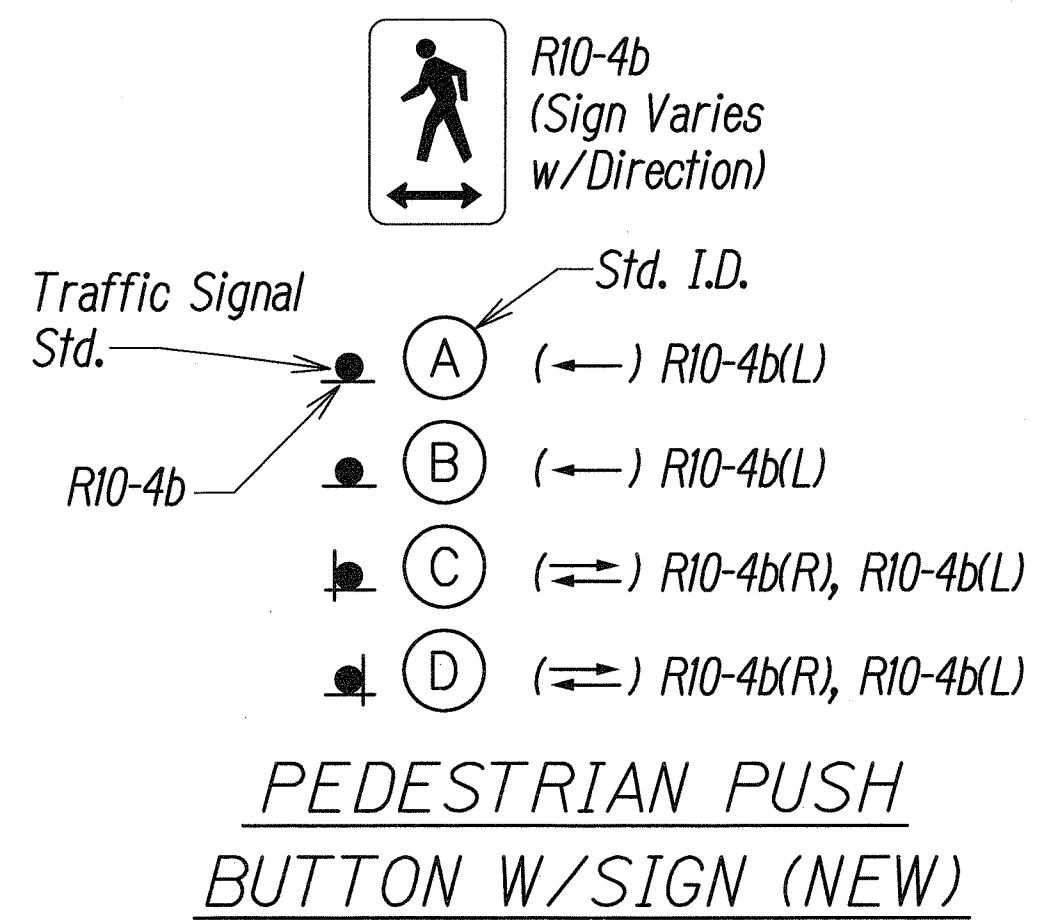


Replace existing:
 Traffic Signal Head (3 Each)
 Pedestrian Signal Head (2 Each)
 Pedestrian Push Button w/direction (2 Each)
 Type I Traffic Signal Std. (to remain)

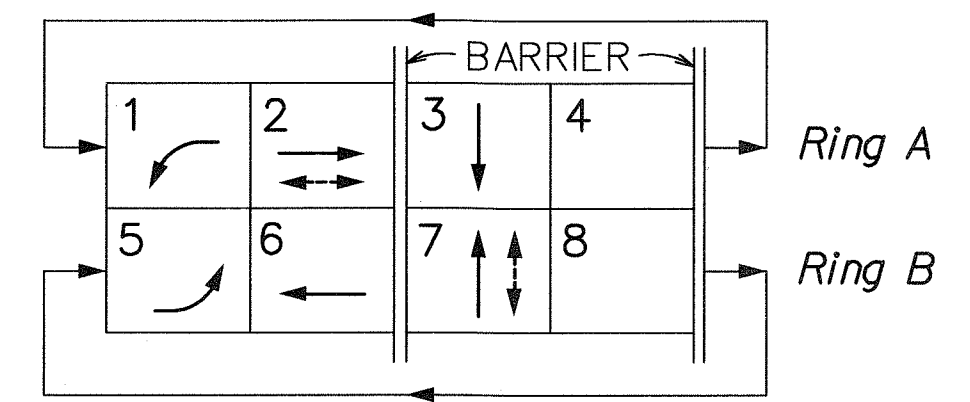
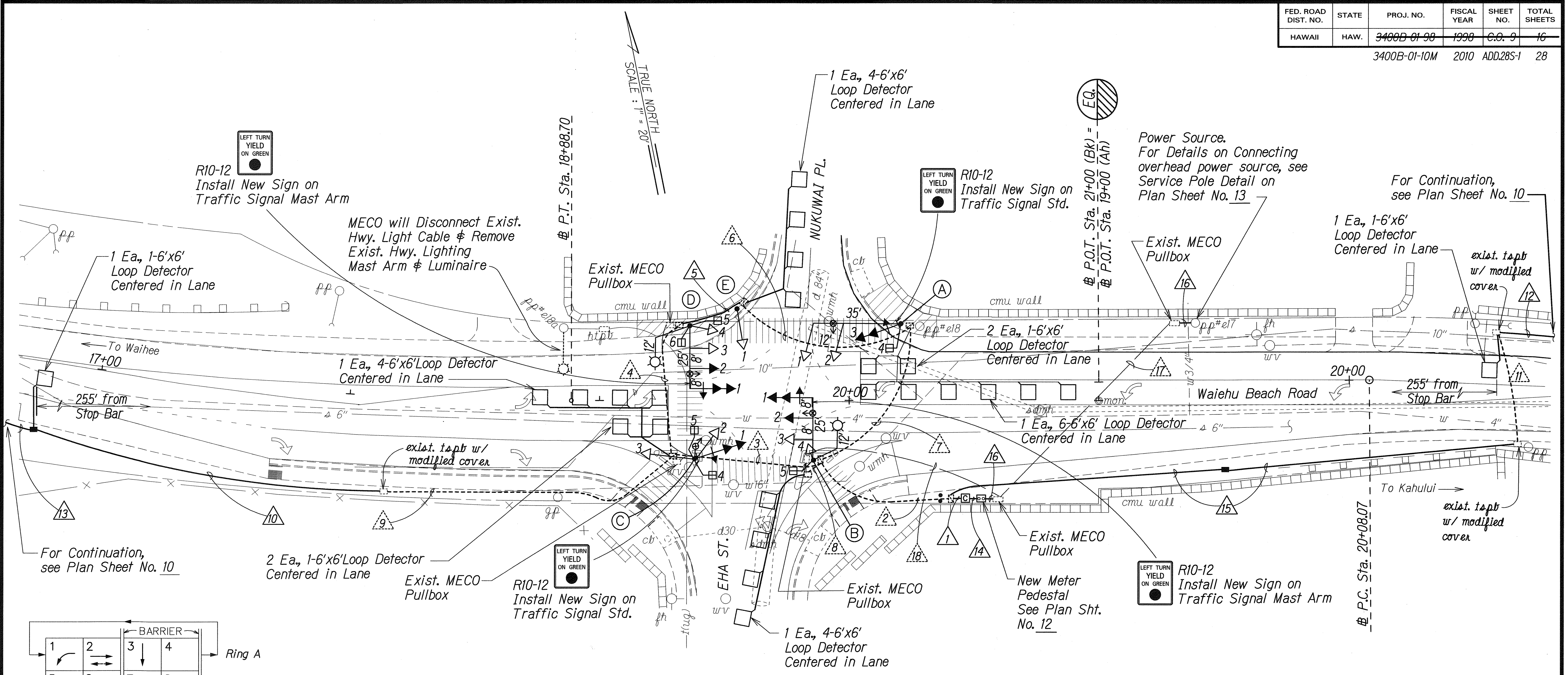
Replace existing:
 Traffic Signal Head (4 Each)
 Pedestrian Signal Head (1 Each)
 Pedestrian Push Button w/direction (1 Each)
 Type III Traffic Signal Std. (to remain)

- KEY:**
- ① Exist. Sign(s) & Post(s) to Remain
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 - ④ Install New Sign(s) & Post(s)

TRAFFIC SIGNAL HEAD SCHEDULE				
Traffic Signal Head Type and Description				
	12" RYG Traffic Signal Head	12" RYG Traffic Signal Head	12" RYG Traffic Signal Head	Pedestrian Signal Head
Pole Letter	A-1	B-2	A-3	A-4
Signal Head	C-3	D-2	B-1	D-5
Number	A-2		C-1	B-5
	D-3		D-1	D-6
	B-3			C-4
	D-4			C-5
	B-4			
	E-1			
	C-2			

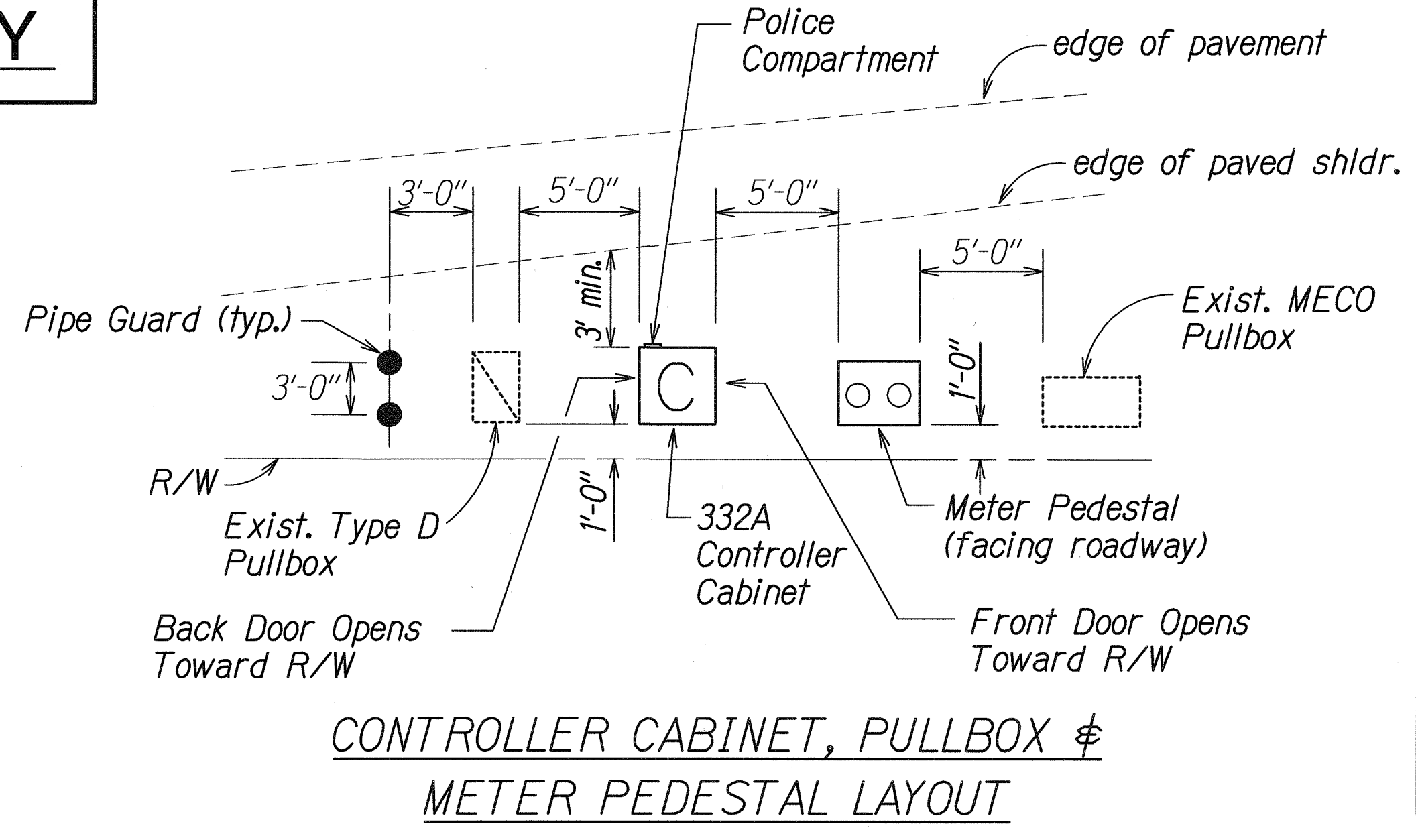
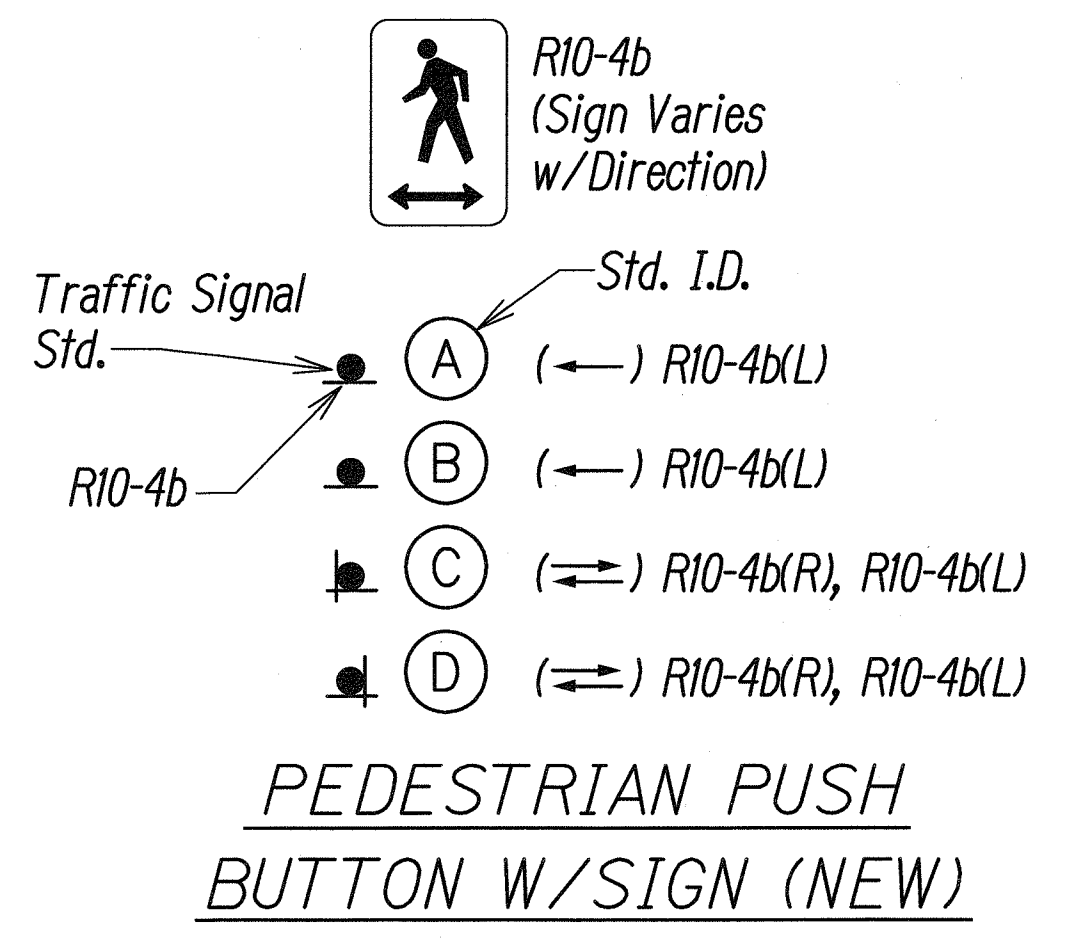


DATE	REVISION
6-14-10	Revised Notes.
6-14-10	Added Key Legend note.
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION TRAFFIC SIGNAL PLAN WAIIEHU BEACH ROAD RESURFACING Kahekili Highway to Kahului Beach Road Project No. 3400B-01-10M Scale: 1" = 20' Date: April, 2010 SHEET No. 1 OF 1 SHEETS	



FOR REFERENCE ONLY

TRAFFIC SIGNAL HEAD SCHEDULE				
Traffic Signal Head Type and Description				
	12" RYG Traffic Signal Head	12" RYG Traffic Signal Head	12" RYG Traffic Signal Head	Pedestrian Signal Head
Pole Letter	A-1	B-2	A-3	A-4
Signal Head Number	C-3	D-2	B-1	D-5
	A-2		C-1	B-5
	B-3		D-1	C-4
	B-4			C-5
	C-2			



6-14-10	Added sheet for reference only.
DATE	REVISION
4/1/98	Delete Type B (Hwy. Ltg.) Pullbox next to pp#el8a. Relocate existing conduit 18.
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC SIGNAL PLAN

WAIEHU BEACH ROAD

Installation of Traffic Signals at Eha Street

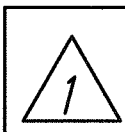
Project No. ~~3400B-01-98~~
3400B-01-10M


Scale: 1"=20' Date: Oct., 1997


SHEET No. 1 OF 3 SHEETS


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	3400B-01-98	1998	16	16


3400B-01-10M 2010 ADD.S28-3 28


	NEW CONDUITS (conc. encased)	NEW CABLE
	3"	2-26c #14 (Type 1)
	3"	2-26c #14 (Type 1)
	3"	Spare *
	2"	6-2c #14 (Type 2)
	2"	4-2c #14 (Type 2)
	2"	4-4c #20 (Type 7)
	2"	2-3c #12 (Type 8)
	2"	Spare


	exist. conduits (conc. encased)	NEW CABLE
	3"	2-26c #14 (Type 1)
	3"	2-26c #14 (Type 1)
	2"	5-2c #14 (Type 2)
	2"	4-2c #14 (Type 2)
	2"	4-4c #20 (Type 7)
	2"	1-3c #12 (Type 8)
	2"	Spare *
	2"	Spare **


	exist. conduits (conc. encased)	NEW CABLE
	2"	1-26c #14 (Type 1)
	2"	1-26c #14 (Type 1)
	2"	4-2c #14 (Type 2)
	2"	2-4c #20 (Type 7)
	2"	1-3c #12 (Type 8)
	2"	Hwy. Ltg. ***
	2"	Spare *
	2"	Spare **


	exist. conduits (conc. encased)	NEW CABLE
	2"	1-26c #14 (Type 1)
	2"	1-26c #14 (Type 1)
	2"	1-2c #14 (Type 2)
	2"	1-4c #20 (Type 7)
	2"	Hwy. Ltg. ***
	2"	Spare


	NEW CONDUITS (conc. encased)	NEW CABLE
	2"	1-26c #14 (Type 1)
	2"	1-26c #14 (Type 1)
	2"	Spare
	2"	Spare


	exist. conduits (conc. encased)	NEW CABLE
	2"	1-26c #14 (Type 1)
	2"	1-26c #14 (Type 1)
	2"	2-2c #14 (Type 2)
	2"	Spare


	exist. conduits (conc. encased)	NEW CABLE
	2"	1-26c #14 (Type 1)
	2"	1-26c #14 (Type 1)
	2"	4-2c #14 (Type 2)
	2"	1-4c #20 (Type 7)
	2"	Spare


	exist. conduit (conc. encased)	NEW CABLE
	2"	1-2c #14 (Type 2)


	exist. conduits (conc. encased)	NEW CABLE
	2"	1-2c #14 (Type 2)
	2"	1-3c #12 (Type 8)
	2"	Spare *
	2"	Spare **


	NEW CONDUITS (conc. encased)	NEW CABLE
	2"	1-2c #14 (Type 2)
	2"	1-3c #12 (Type 8)
	2"	Spare *
	2"	Spare **


	exist. conduits (conc. encased)	NEW CABLE
	2"	1-2c #14 (Type 2)
	2"	1-3c #12 (Type 8)
	2"	spare
	2"	spare


	NEW CONDUIT (conc. encased)	NEW CABLE
	2"	1-3c #12 (Type 8)


	NEW CONDUITS (conc. encased)	NEW CABLE
	2"	1-3c #12 (Type 8)
	2"	Spare *
	2"	Spare **

	NEW CONDUIT (conc. encased)	NEW CABLE
	2"	1-3c #4 (Type 6)

	NEW CONDUITS (conc. encased)	NEW CABLE
	2"	1-2c #14 (Type 2)
	2"	1-3c #12 (Type 8)
	2"	Spare *
	2"	Spare **

	NEW CONDUIT (conc. encased)	NEW CABLE
	3"	MECO Power Cable

	exist. conduit (conc. encased)	NEW CABLE
	3"	MECO Power Cable

	exist. conduit (conc. encased)	NEW CABLE
	2"	Hwy. Ltg. ***

6-14-10 Added sheet for reference only.

DATE REVISION

4/3/98 Change  &  to existing

DATE REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC SIGNAL PLAN

WAIEHU BEACH ROAD

Installation of Traffic Signals at Eha Street

Project No. ~~3400B-01-98~~

3400B-01-10M

Date: Oct., 1997

SHEET No. 3 OF 3 SHEETS

ADD. S28-3 ~~C.O. 11~~

* Future Interconnect Cable
** Future Fiberoptic Cable
*** Highway Lighting Cable (per MECO Standards)

FOR REFERENCE ONLY

ORIGINAL PLAN	SURVEY PLOTTED BY DATE
NOTE BOOK	DRAWN BY <i>Ally A</i>
DESIGNED BY <i>C. Abe</i>	
CHECKED BY <i>Ally A</i>	
DESIGNED BY <i>Ally A</i>	
CHECKED BY <i>Ally A</i>	