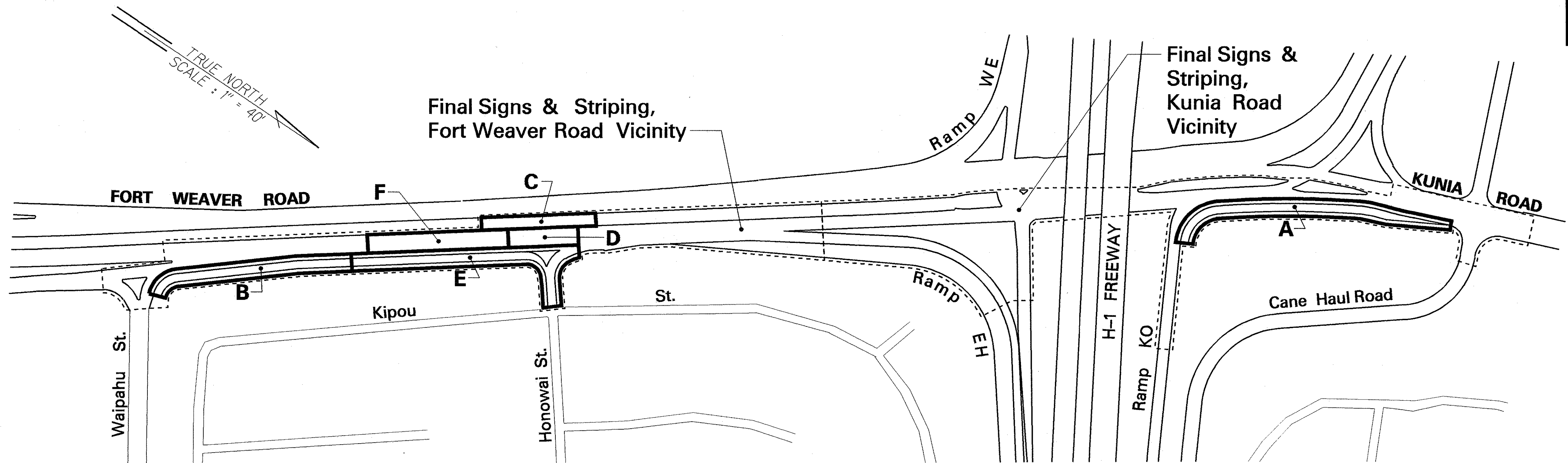


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-01-04	2004	43	61



		Maximum Duration (Consecutive Working Day)	Minimum Number of Police Officers for Traffic Control	Traffic Requirements	Work Area Protection
Entire Project		120	Various*	Comply w/pertinent Special Provision sections. Maintain all lanes during non-working hours. No working on the shoulder and center median of Fort Weaver Road at the same time, e.g., Areas C and E cannot proceed at the same time.	Comply with pertinent Special Provision sections, FHWA, MUTCD, AASHTO Roadside Design Guide and as supplementally called out herein for the respective work areas/activity zones. In the event of conflict between requirements, the most stringent shall prevail.
Area A	Kunia Road vicinity, including: Temporary pavement striping/lane shift Existing utility relocations and adjustments Drainage improvements Site improvements (sidewalk and grade adjustment wall) Road paving	30	2	Maintain all lanes including H-1 exit ramp (Ramp KO).	Portable barriers and end treatments, See Plan Sheet Nos. 10 & 13
Area B	Fort Weaver Road between &#216; Sta. 72+00 to Waipahu Street, including: Existing utility relocation and adjustments Site improvements (sidewalk) Road paving	40	2	Maintain all lanes including Waipahu Street	Type II Barricades @ 10' o.c. with Type C Steady-Burn Warning Lights and sandbag
Area C	Fort Weaver Road center median vicinity, including: Existing concrete barrier demolition Existing utility relocation and adjustment Traffic signal system installation (foundation/barrier, posts, signals and pullboxes)	10	2	Maintain all lanes.	Portable barriers and end treatments for both directions of Ft. Weaver Rd., See Plan Sheet Nos. 10 & 13
Area D	Fort Weaver Road between &#216; Stas. 66+00 to 68+00, including: Traffic signal concrete encased conduits Road paving	5	2	Maintain minimum of two north-bound lanes. Honowai Street closure allowed.	Cones @ 10' o.c. or shadow vehicle with moving arrow panel and rear-mounted impact attenuator
Area E	Honowai Street and Fort Weaver Road between &#216; Stas. 68+00 to 73+00, including: Temporary pavement striping/lane shift Existing utility relocations and adjustments Site improvements (sidewalk and traffic islands) Drainage improvements Traffic signal system installation Road paving Sign and striping	60	2	Maintain all lanes. Honowai Street closure allowed.	Portable barriers and end treatments, See Plan Sheet Nos. 10 & 13
Area F	Fort Weaver Road between &#216; Stas. 68+00 to 73+00, including: Traffic signal system installation (detection loops)	2	2	Maintain minimum of two north-bound lanes. Honowai Street closure allowed.	Cones @ 10' o.c. or shadow vehicle with moving arrow panel and rear-mounted impact attenuator
Final Signs & Striping, Kunia Road Vicinity		5	2	Maintain minimum of two north-bound lanes.	Cones @ 10' o.c. or shadow vehicle with moving arrow panel and rear-mounted impact attenuator
Final Signs & Striping, Fort Weaver Road Vicinity		5	2	Maintain minimum of two north-bound lanes.	Cones @ 10' o.c. or shadow vehicle with moving arrow panel and rear-mounted impact attenuator

**\*NOTE:**  
Refer to Special Provision Section 645-Traffic Control Devices. First two police officers for each work area is considered to be part of the base bid, i.e., incidental &#216; inclusive of the various contract items. If two work areas proceed simultaneously, a total of four police officers would be required as part of the base contract price.

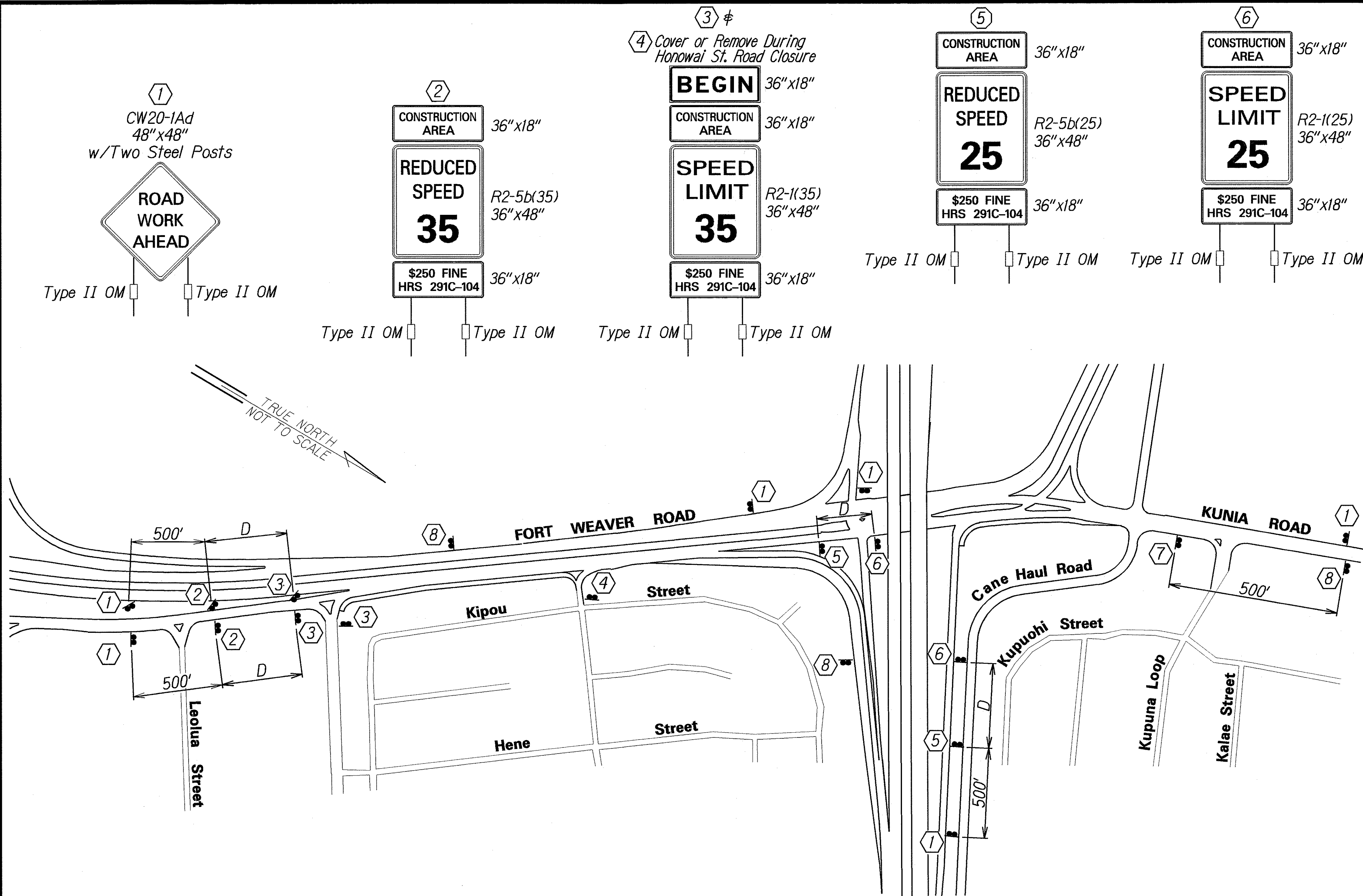
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	11/3/03
QUANTITIES BY	CHECKED BY	

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**CONSTRUCTION PHASING PLAN**  
  
**KUNIA ROAD IMPROVEMENTS**  
Vicinity of South Kupuna Loop to  
Vicinity of Honowai Street  
Project No. HWY-0-01-04  
Scale: As Noted      Date: Oct. 2003

SHEET No. *TCI* OF 3 SHEETS

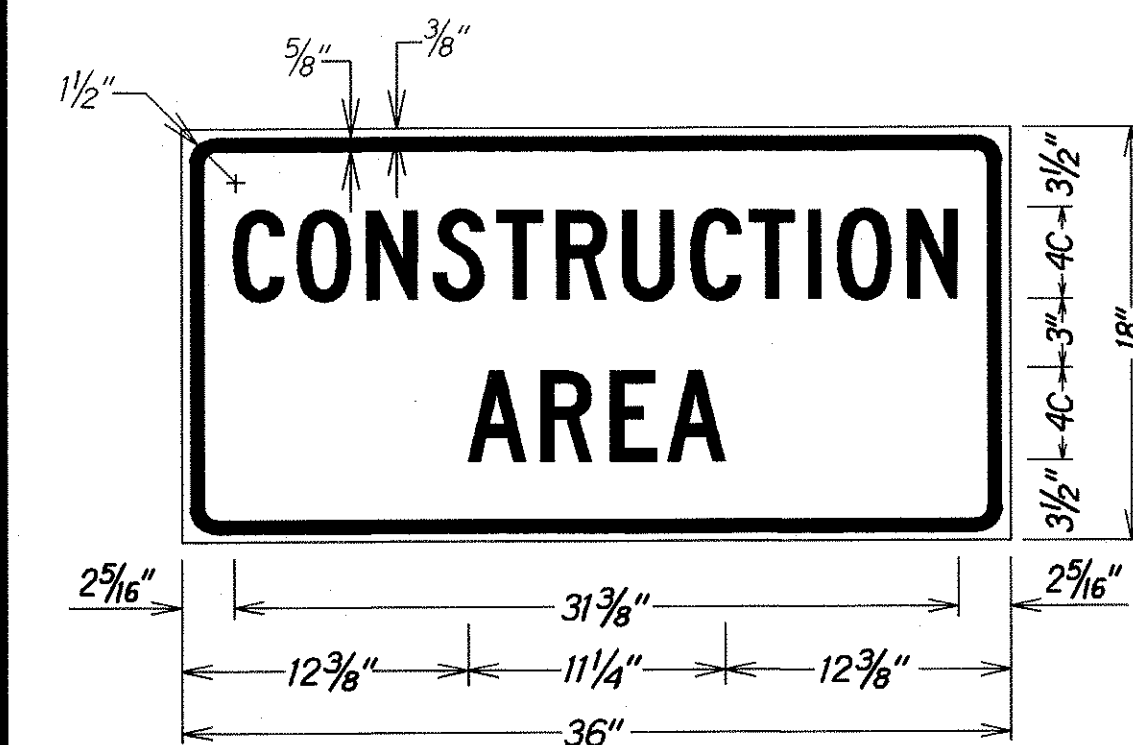
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-01-04	2004	44	61



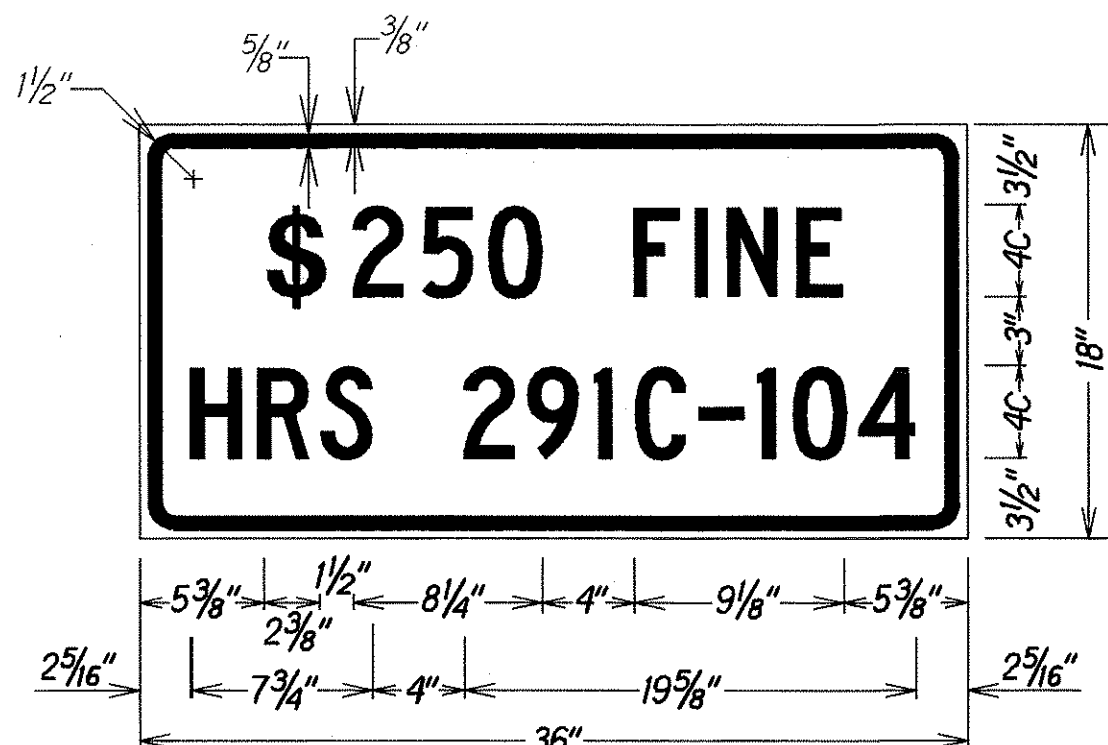
**Notes:**

1. All applicable existing regulatory speed limit signs within the work zone/project limits shall be removed or covered.
2. One construction sign assembly includes all shown sign panel(s), post(s) and Type II OM(s) at each location.
3. Each construction warning sign and work zone speed limit assembly shall have a minimum of two (2) Type II OM.
4. Installation of each Type II OM shall be considered incidental to Item No. 621.7100, Construction Sign Assembly with Posts. 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. Unless otherwise noted, 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.
5. Placement of construction signs shall not obstruct the path of pedestrians and bicyclists.
6. Contractor shall request Engineer's review and approval after field layout and before installation.
7. The removal and restoration of existing regulatory speed limit signs with new posts shall be considered inclusive of Item No. 621.7100, Construction Sign with Posts.

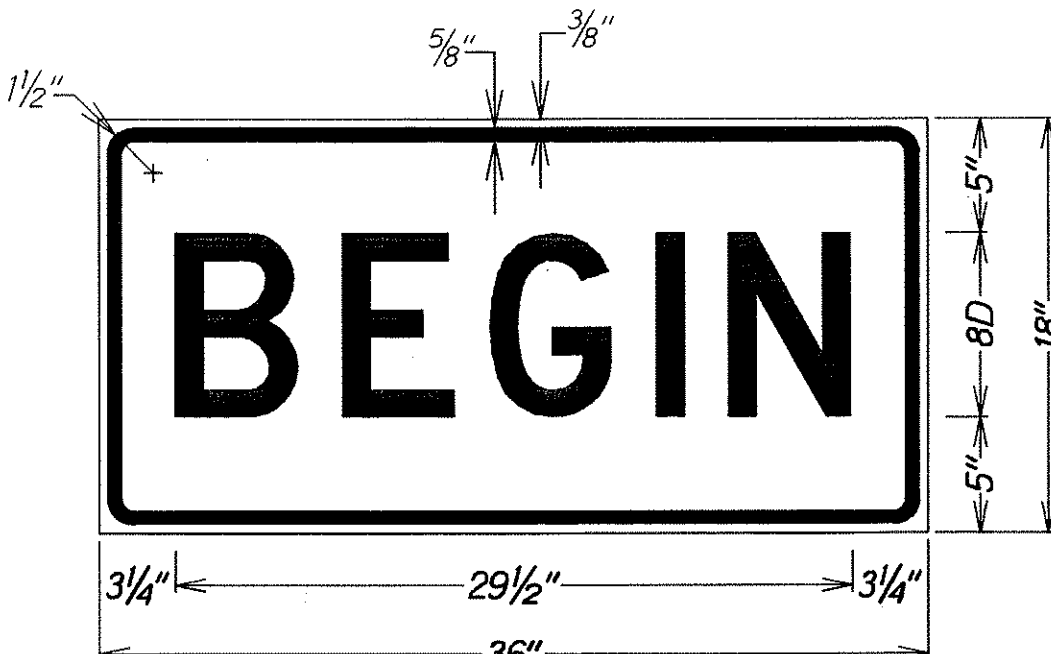
TABLE I GUIDELINE FOR ADVANCE PLACEMENT OF SPEED REDUCTION SIGN R2-5b(XX)-A, CONSTRUCTION AREA SPEED LIMIT		
EXISTING POSTED SPEED LIMIT (MPH)	XX-NEW CONSTRUCTION AREA SPEED LIMIT (MPH)	D-REDUCED SPEED LIMIT SIGN SPACING TO FIRST CONSTRUCTION AREA SPEED LIMIT SIGN (FEET)
35	25	175
45	35	225



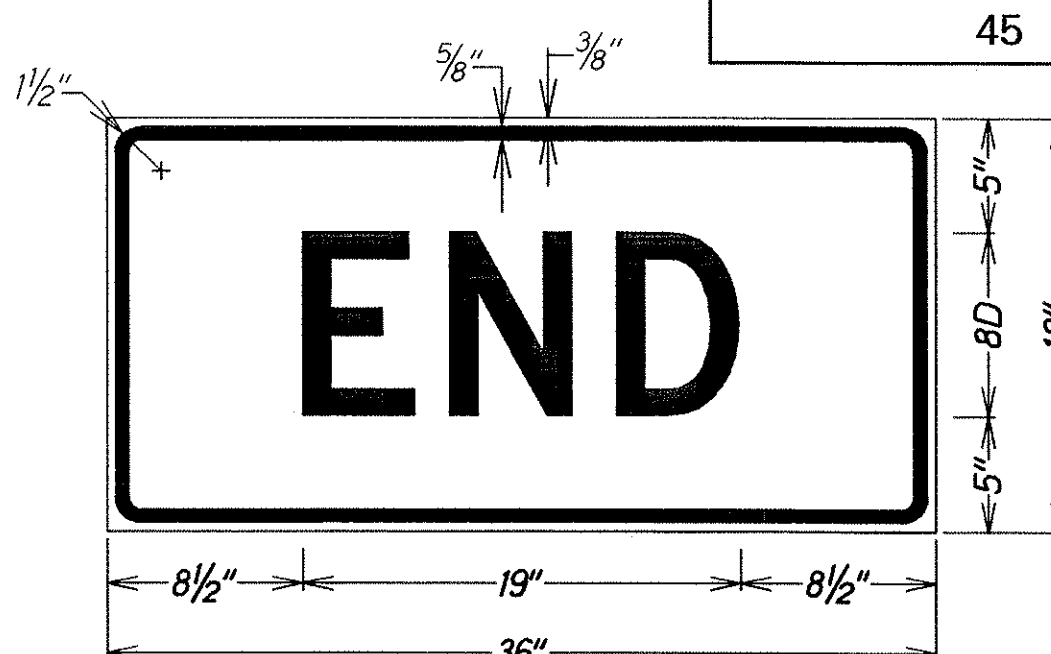
LEGEND: BLACK  
BACKGROUND: ORANGE



LEGEND: BLACK  
BACKGROUND: WHITE



LEGEND: BLACK  
BACKGROUND: ORANGE



LEGEND: BLACK  
BACKGROUND: ORANGE

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**CONSTRUCTION SIGN PLAN**  
  
KUNIA ROAD IMPROVEMENTS  
Vicinity of South Kupuna Loop to  
Vicinity of Honowai Street  
Project No. HWY-0-01-04

Scale: As Noted
Date: Oct. 2003



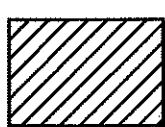

SHEET No. TC2 OF 3 SHEETS

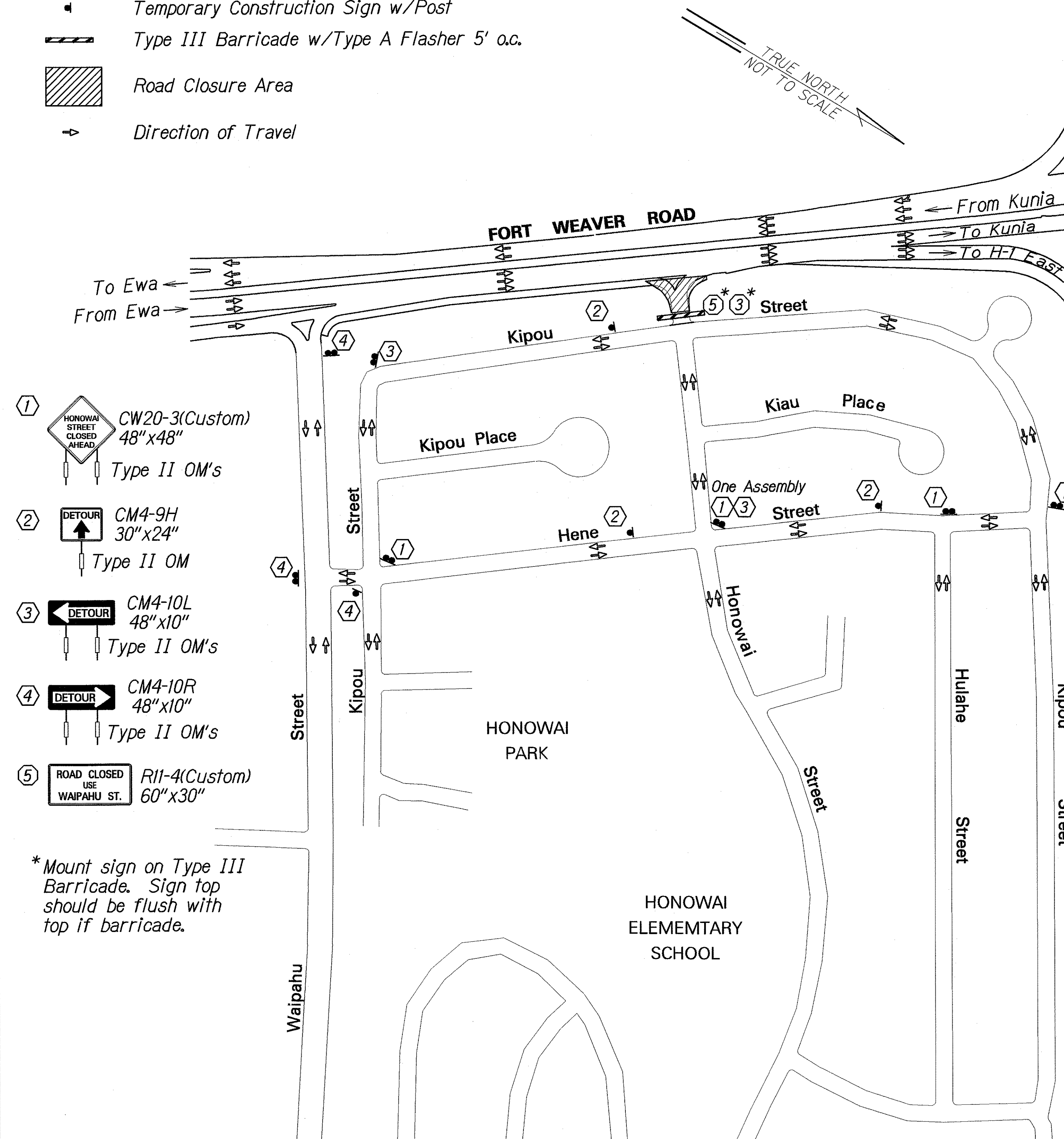
SURVEY PLOTTED BY	DATE
DRAWN BY	11/10/03
DESIGNED BY	
NOTED BY	
CHECKED BY	
QUANTITIES BY	
REVISIONS	



FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-01-04	2004	45	61

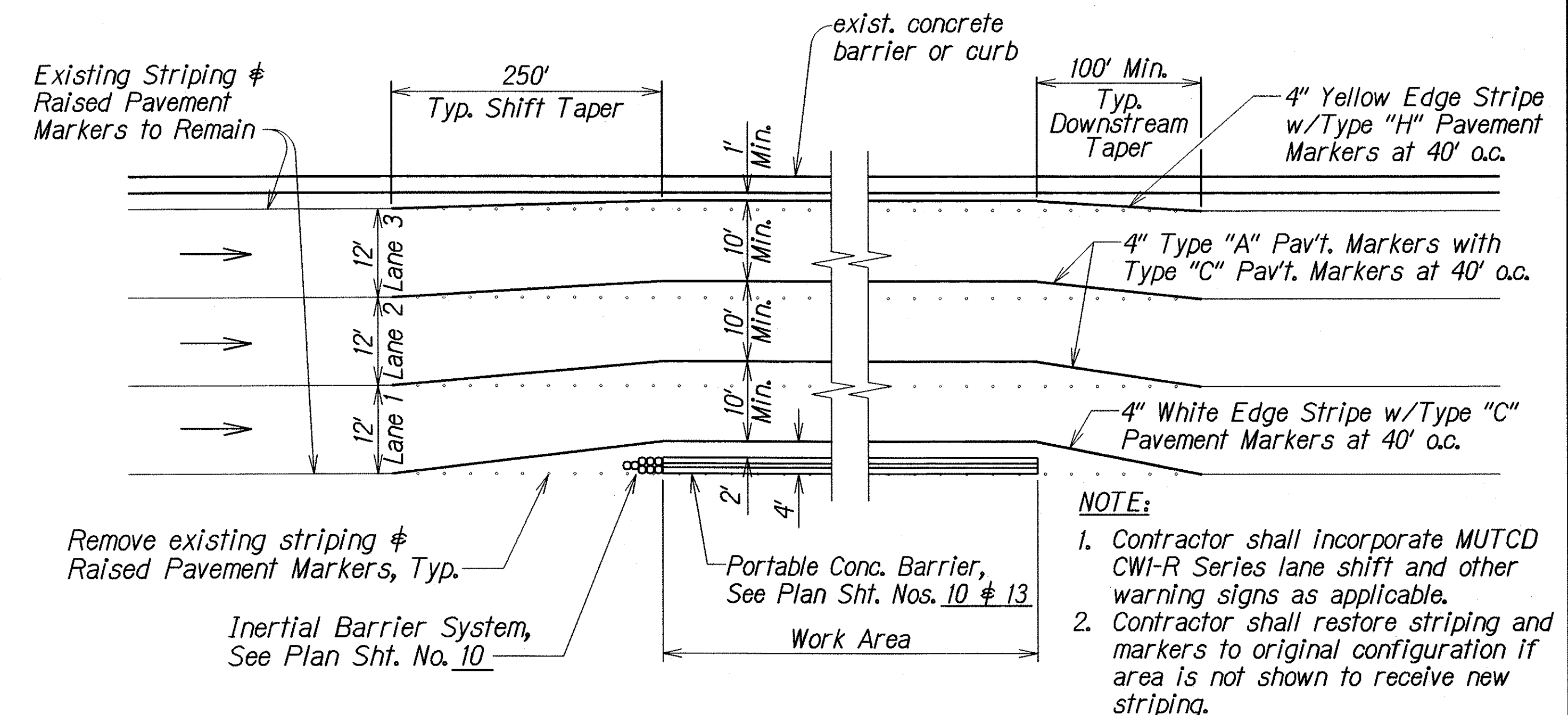
**LEGEND:**

-  Temporary Construction Sign w/Post
-  Type III Barricade w/Type A Flasher 5' o.c.
-  Road Closure Area
-  Direction of Travel



**NOTES:**

- Plans on this sheet are intended to work in conjunction with project phasing, temporary traffic control, pedestrian access through work zones, and other requirements of this project. Contractor shall especially reference and coordinate with the following contract requirements before and during road closure:
  - Special Provision Section 645 - Traffic Control Devices
  - Special Provision Section 104.04 - Maintenance of Traffic
  - Special Provision Section 104.05 - Construction and Maintenance of Detours
  - Special Provision Section 107.13 - Public Convenience and Safety
  - Special Provision Section 107.14 - Barricades and Warning Signs
  - Plan Sheet No. 43 - Phasing Plan
  - Plan Sheet Nos. 10 & 13 - (typical portable concrete barrier details and inertial barrier system)
- In addition to notifying the general public and various government agencies as specified in Section 107.13, Contractor shall notify in writing approximately one hundred fifty (150) residences bounded by Hene Street and Fort Weaver Road of the road closure two (2) weeks before the actual closure. The notice shall include brief reason for road closure, detour route, estimated road closure duration, and Contractor's contact information.
- Signs of the street closure plan shall be measured and paid as Item No. 621.7100- Construction Sign Assembly with Posts. All other works required for the street closure including work described in Note No. 2 shall be considered incidental and inclusive of the various contract items.



SURVEY PLOTTED BY	DATE
DRAWN BY	11/23/03
TRACED BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**DETOUR PLAN**  
KUNIA ROAD IMPROVEMENTS  
Vicinity of South Kupuna Loop to  
Vicinity of Honowai Street  
Project No. HWY-0-01-04  
Scale: As Noted Date: Oct. 2003  
SHEET No. TC3 OF 3 SHEETS