


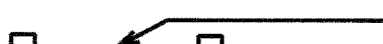




















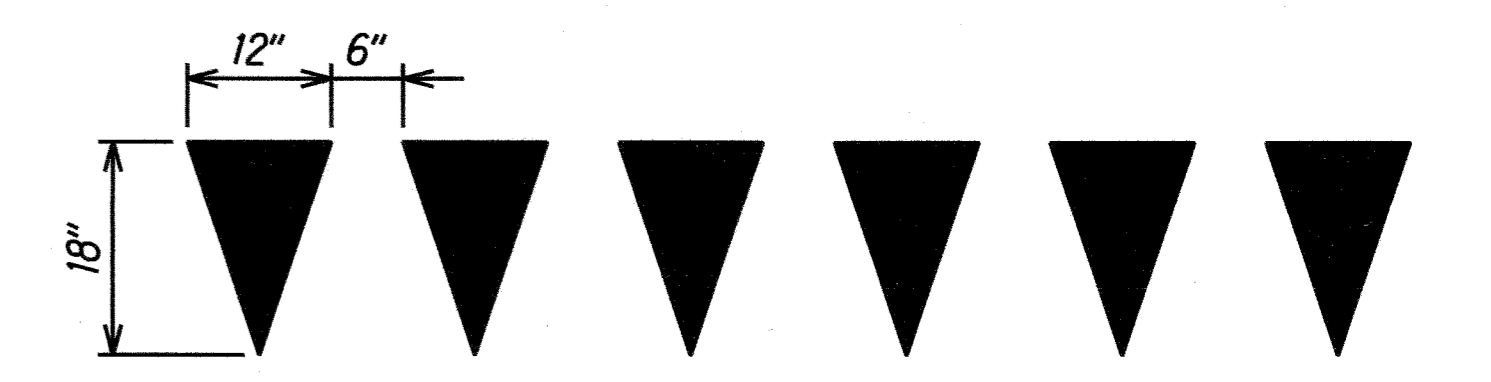
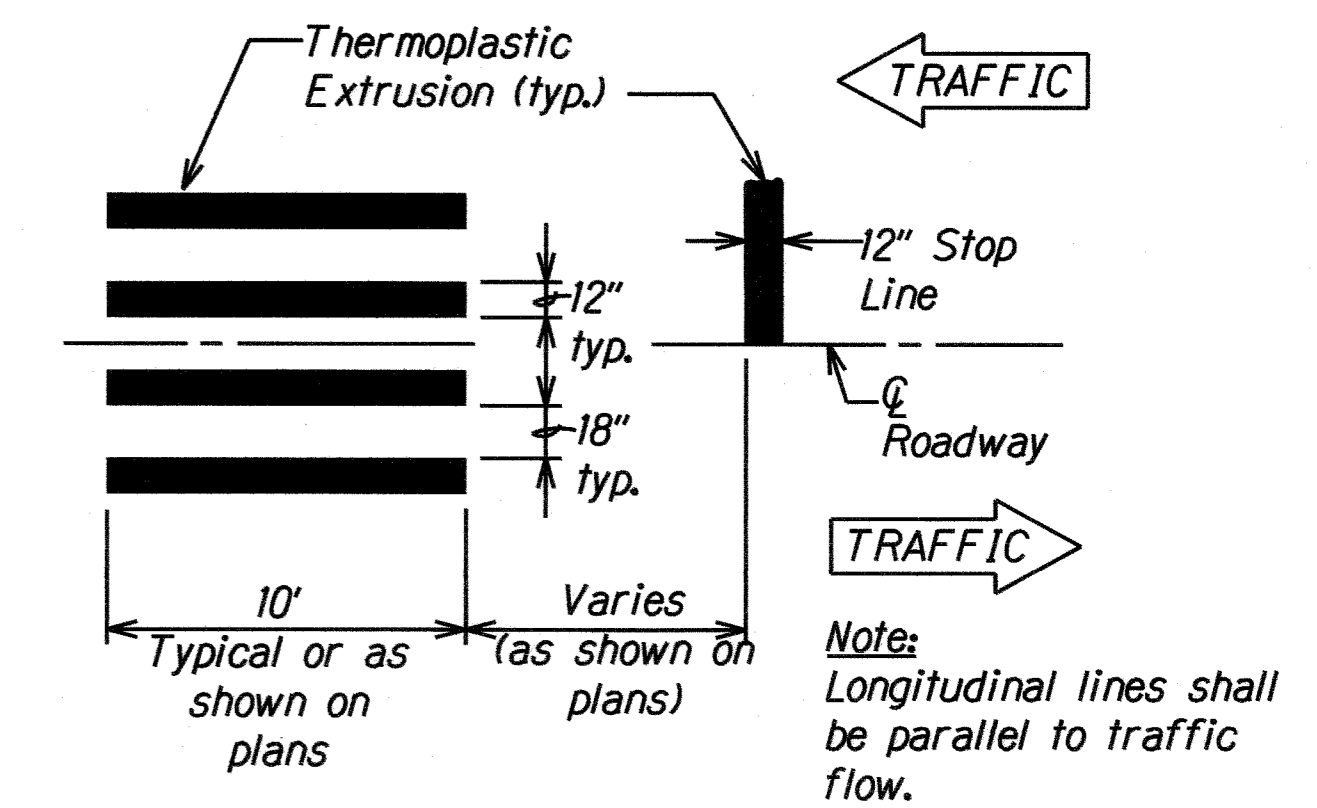
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	56A-02-05	2009	18	39

LEGEND:

-  Type DB Blue Raised Pavement Marker
-  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. (Thermoplastic Extrusion)
-  4" Double Solid Yellow with Type D Raised Pavement Markers @ 20'-0" o.c. (Thermoplastic Extrusion)
-  4" Double Solid Yellow Stripes with Type H Raised Pavement Markers @ 20'-0" o.c. (Thermoplastic Extrusion)
-  4" Yellow Edge Stripe with Type H Raised Pavement Markers @ 40'-0" o.c. (Thermoplastic Extrusion)
-  4" Double Solid White Stripes with Type C Raised Pavement Markers @ 20'-0" o.c. (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 (Thermoplastic Extrusion)
-  4" or 8" White Edge Stripe with Type C Raised Pavement Markers @ 40'-0" o.c. (Thermoplastic Extrusion)
-  4" White Guide Lines (Thermoplastic Extrusion except for bus bays)
-  Transverse Median Marking (Thermoplastic Extrusion)
-  Transverse Shoulder Marking (Thermoplastic Extrusion)
-  Channelizing Island or Deceleration Lane Gore (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 (Thermoplastic Extrusion)
-  Pavement Arrow (Thermoplastic Extrusion)
-  STOP Pavement Word (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 (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. (Thermoplastic Extrusion)

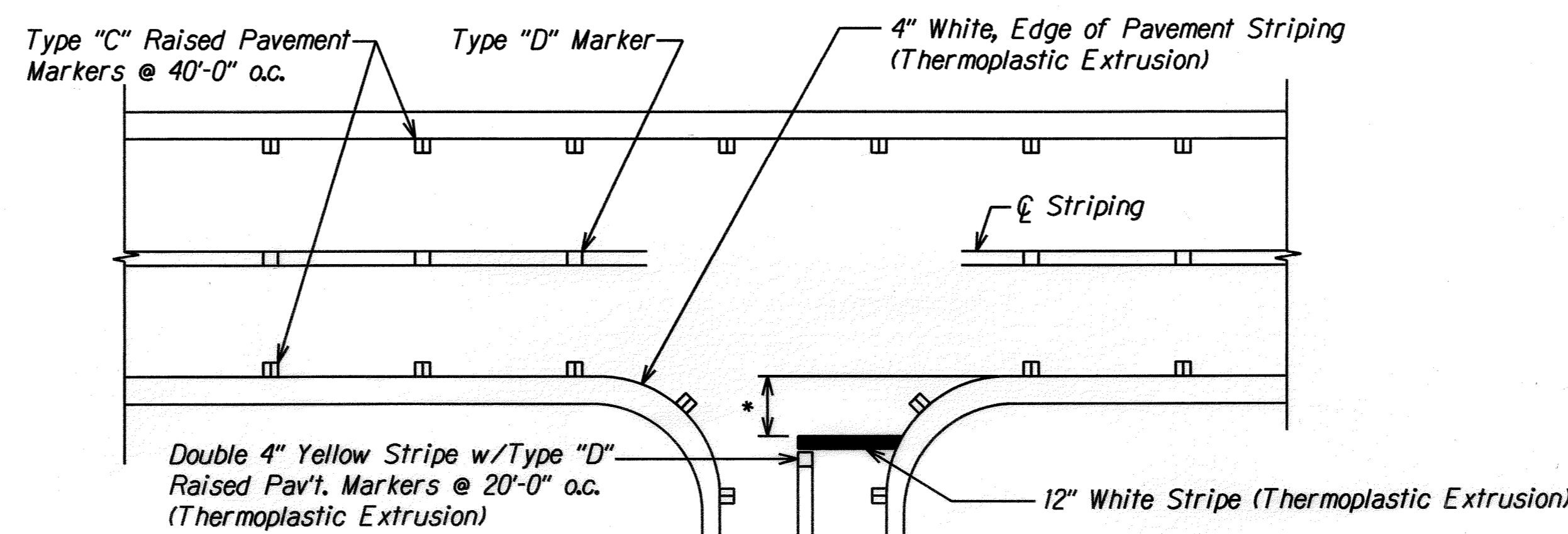
NOTES:

1. Layout of pavement markings and striping shall be done by the Contractor and approved by the Engineer prior to any installation work.
2. 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.
3. Raised pavement markers shall not be installed within crosswalks.
4. Final locations of all Stop Lines shall be approved by the Engineer prior to installation.
5. 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.
6. Final locations of all stop lines shall be accepted by the Engineer prior to installation.
7. All pavement striping shall be as noted on the legend or plans.
8. All preformed pavement marking tapes over existing pavement shall be applied with a primer as recommended by the tape manufacturer and as accepted by the Engineer. The primer shall be allowed to dry to the tacky stage prior to tape application.
9. The Contractor shall erect at the beginning of the project and at the end of the project advance construction warning signs placed as indicated on the plans or as directed by the Engineer. The signs shall be kept in place for the duration of the project and shall be maintained by the Contractor. These signs shall be placed in addition to the required traffic control signs called for in Section 645 - Work Zone Traffic Control. The advance construction warning signs shall be new and become the property of the Contractor.
10. Existing signs that are to be replaced shall not be removed until new signs are installed as replacements, or the messages are no longer necessary.
11. Backing for all new regulatory and warning signs shall not be spliced.
12. All sign panels shall conform to Section 630 of Special Provisions and the latest editions and amendments of the following FHWA publications:
 - a. "Manual on Uniform Traffic Control Devices for Streets and Highways" (MUTCD)
 - b. "Standard Highway Signs"
 - c. "Standard Alphabets for Highway Signs"
13. State Route Marker Symbols, borders, messages, arrows, symbols and shields shall conform to details as shown on the plans and as specified in the MUTCD.
14. All new and relocated signs and markers installed on pipe posts, light standard or the expressway sign post are to be mounted with band brackets and steel braces.
15. Removal of existing delineators and posts, as directed by the Engineer or shown on the plans, shall be considered incidental to the various signing items.
16. Removal and reinstalling existing street name signs on regulatory and warning sign post shall not be paid for separately but shall be considered incidental to the various signing items.
17. Size and number of sign posts shall be determined by Standard Plans TE-02 and TE-03. Flanged channel sign posts shall be used only when windload charts shown on Standard Plan TE-03 are exceeded.

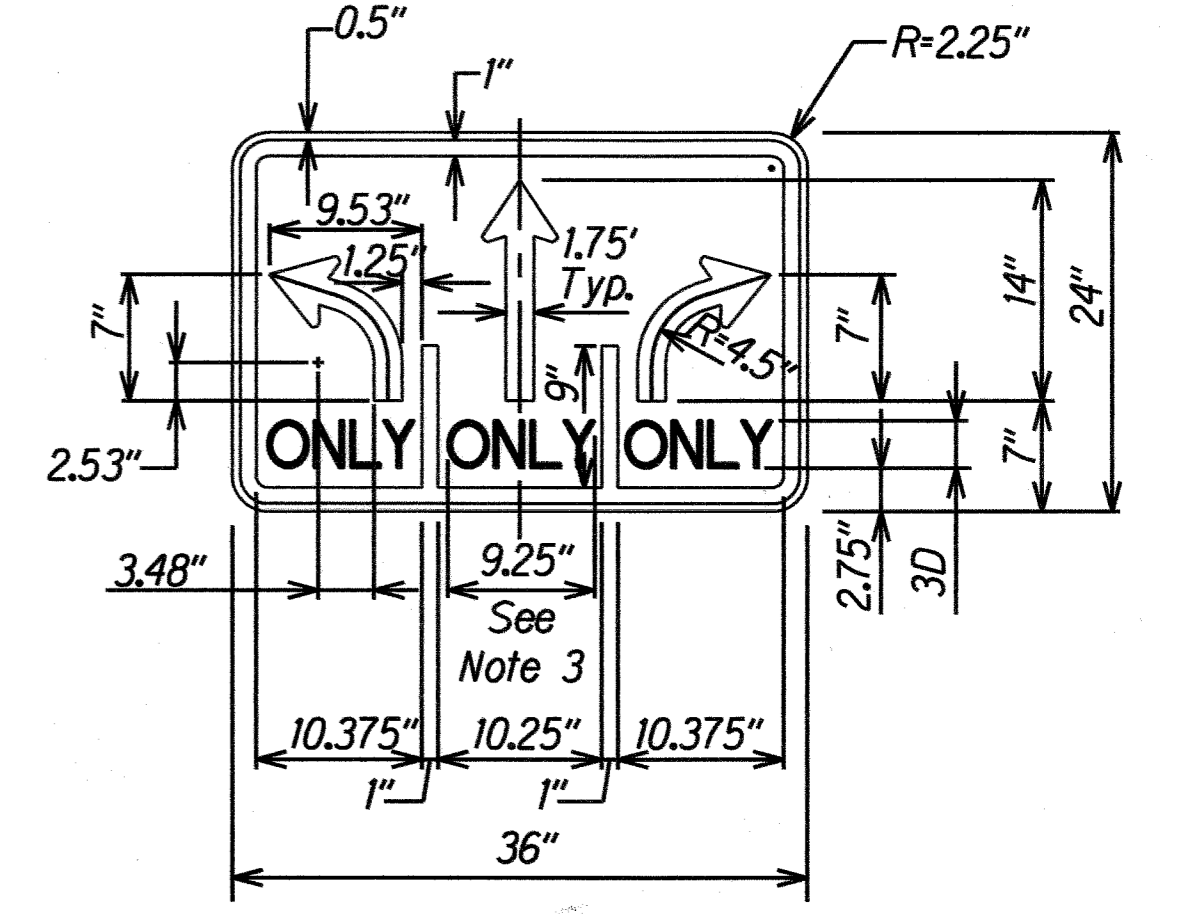


Note: Yield line markings shall be paid for as one complete set.

TYPICAL YIELD LINE DETAIL
Not to Scale



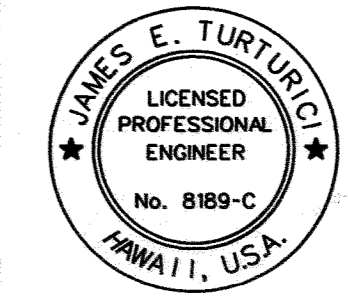
Note:
All Pavement Striping Shall be Thermoplastic Extrusion



- NOTES:**
1. Black legend on white (retroreflective) background.
 2. Right arrow symmetrical with left arrow.
 3. Center legend and reduce spacing to fit.

Modified R3-8b Detail
Not to Scale

DESIGNED BY	DATE
TRACED BY	
QUANTITIES BY	
CHECKED BY	
GENERAL PLAN	
NOTE BOOK	
FUNCTION	



Signature
James E. Turturici
License Expiration Date: 4/10
THIS WORK WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKINGS LEGEND, DETAILS & NOTES

Kuhio Highway Intersection Improvements

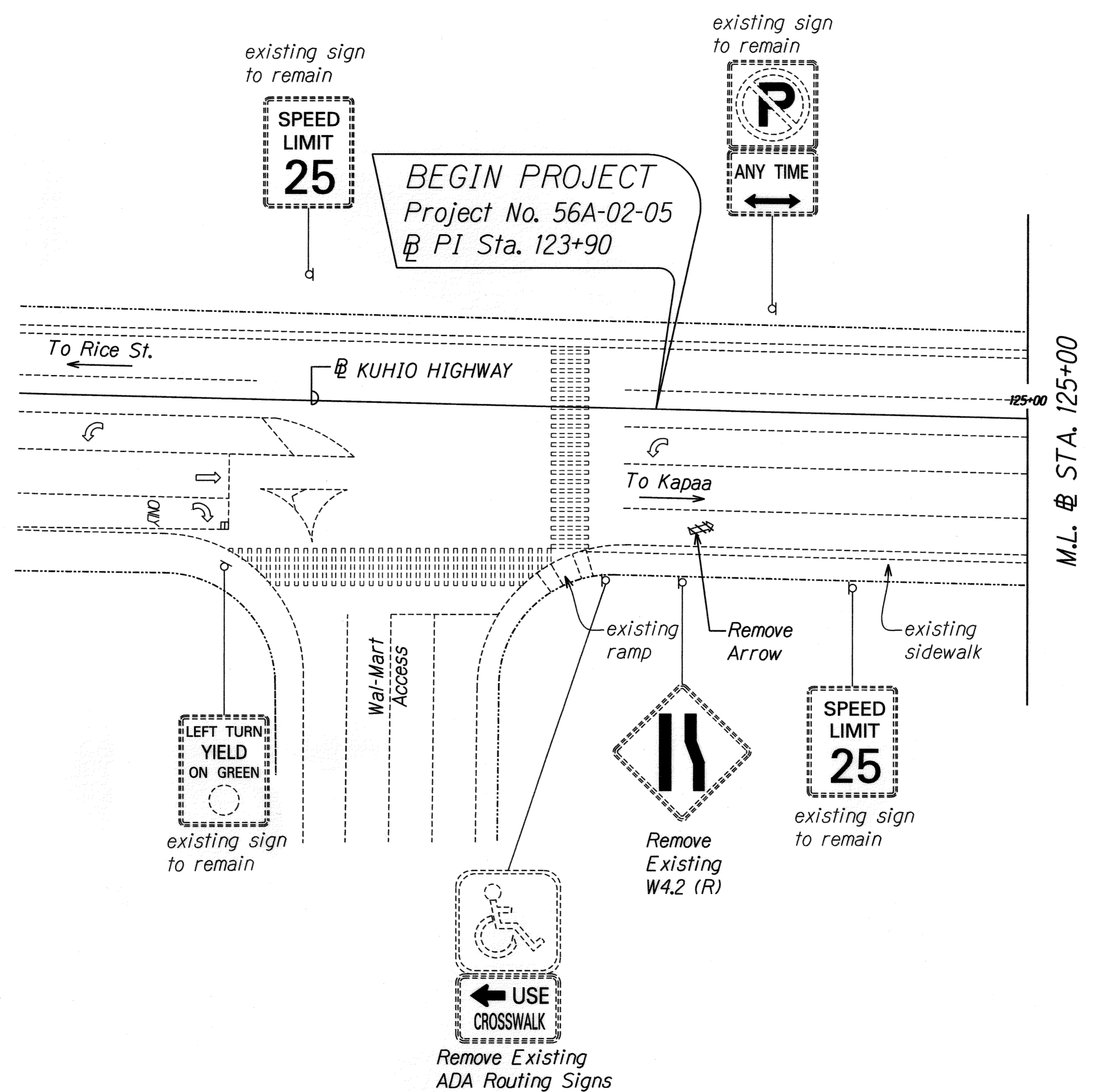
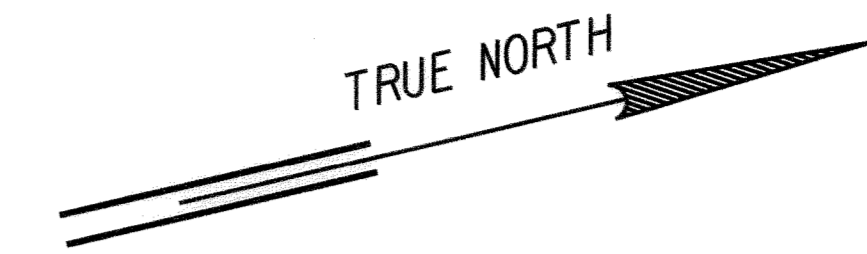
Eha Street

Project No. 56A-02-05

Scale: Not to Scale Date: April 2009

SHEET No. 11 OF 8 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	56A-02-05	2009	19	39



DESIGNED BY	DATE
TRACED BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	

Signature: *James E. Turturici*
Licensed Professional Engineer
 License Expiration Date: 4/30
 THIS WORK WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

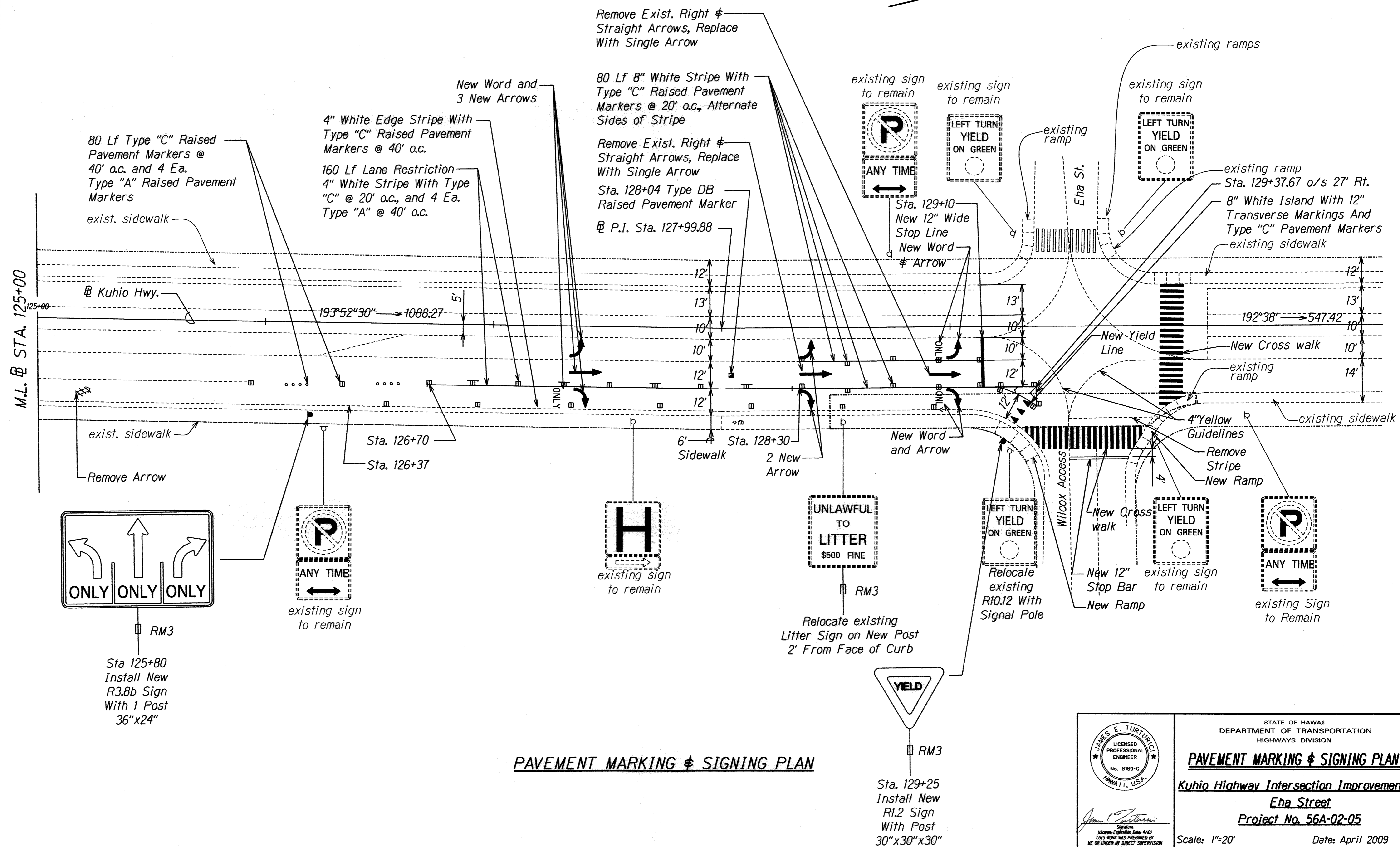
PAVEMENT MARKING & SIGNING PLAN

Kuhio Highway Intersection Improvements
Eha Street
 Project No. 56A-02-05

Scale: 1"=20' Date: April 2009

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	56A-02-05	2009	20	39

TRUE NORTH



DESIGNED BY	DATE
TRACED BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

Sta 125+80
Install New
R3.8b Sign
With 1 Post
36" x 24"

PAVEMENT MARKING & SIGNING PLAN

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKING & SIGNING PLAN

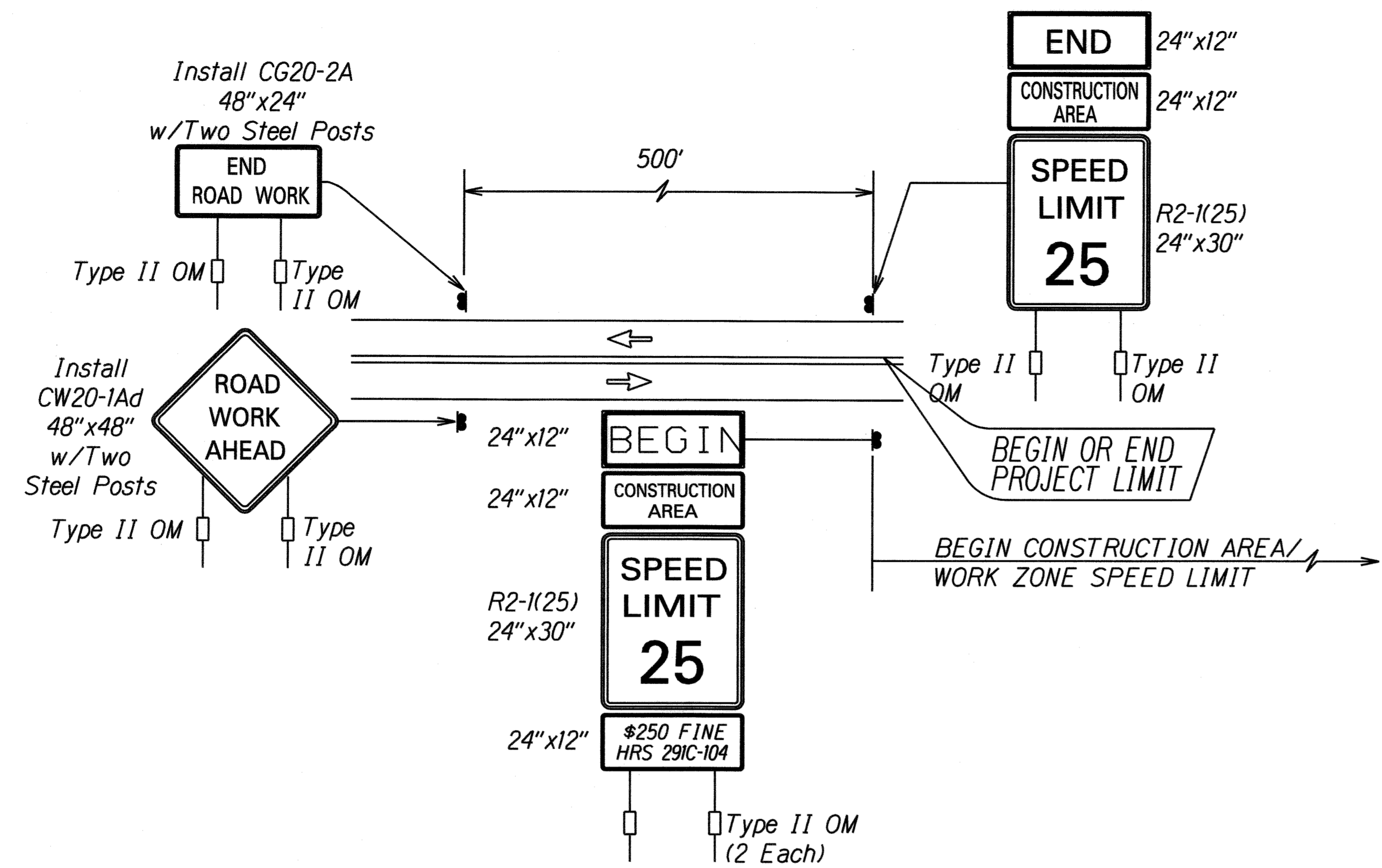
Kuhio Highway Intersection Improvements

Eha Street

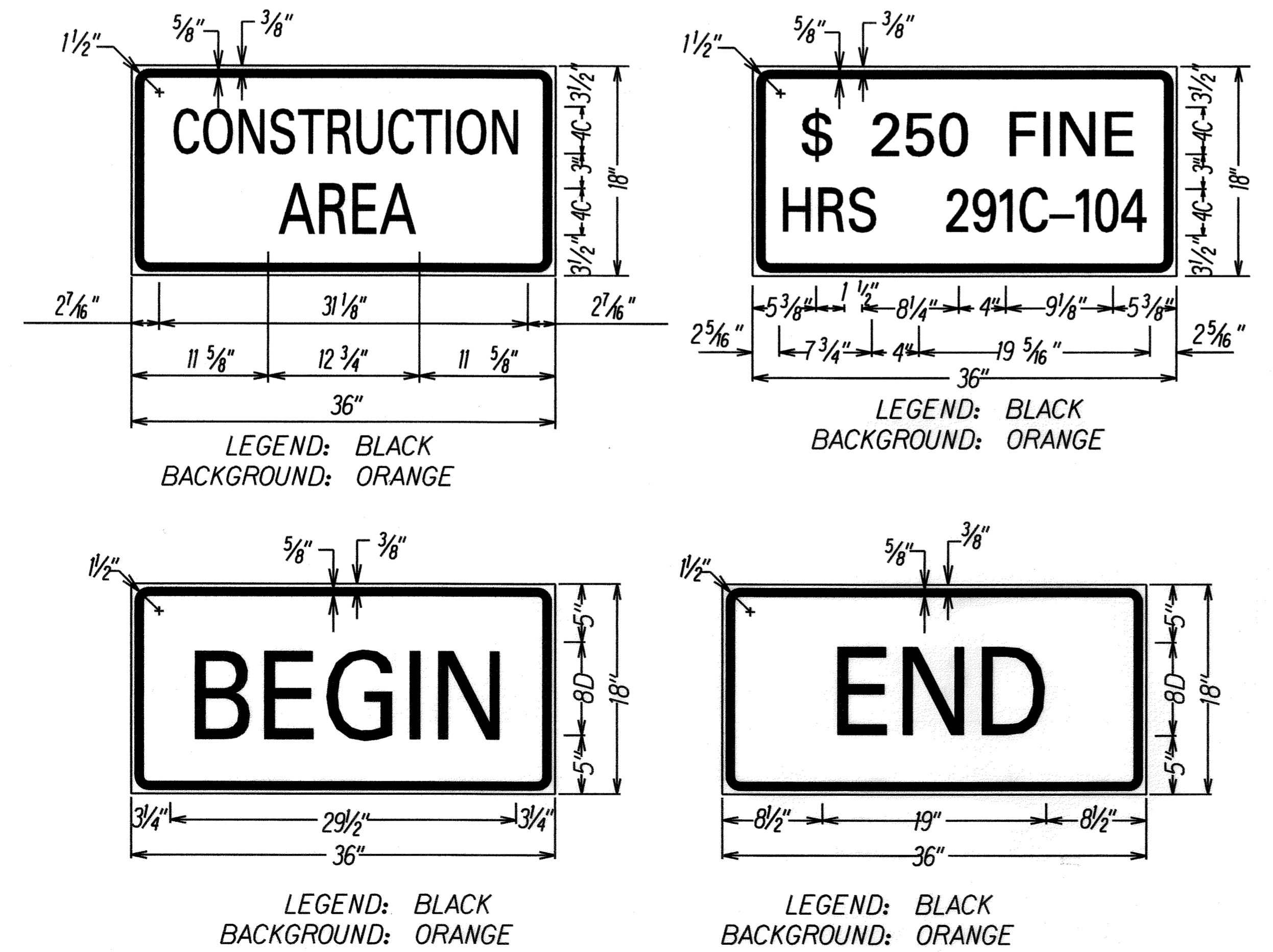
Project No. 56A-02-05

Scale: 1"=20' Date: April 2009

SHEET No. 20 OF 8 SHEETS



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



Work Zone Note:






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 R2-5b(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 and work zone speed limit assembly shall have a minimum of two (2) 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.
8. The installation, maintenance and removal of work zone speed limit sign assemblies shall be paid for under Item No. 645.0100 - Traffic Control.
9. The work zone speed limit signs shall be new and become the property of the Contractor.

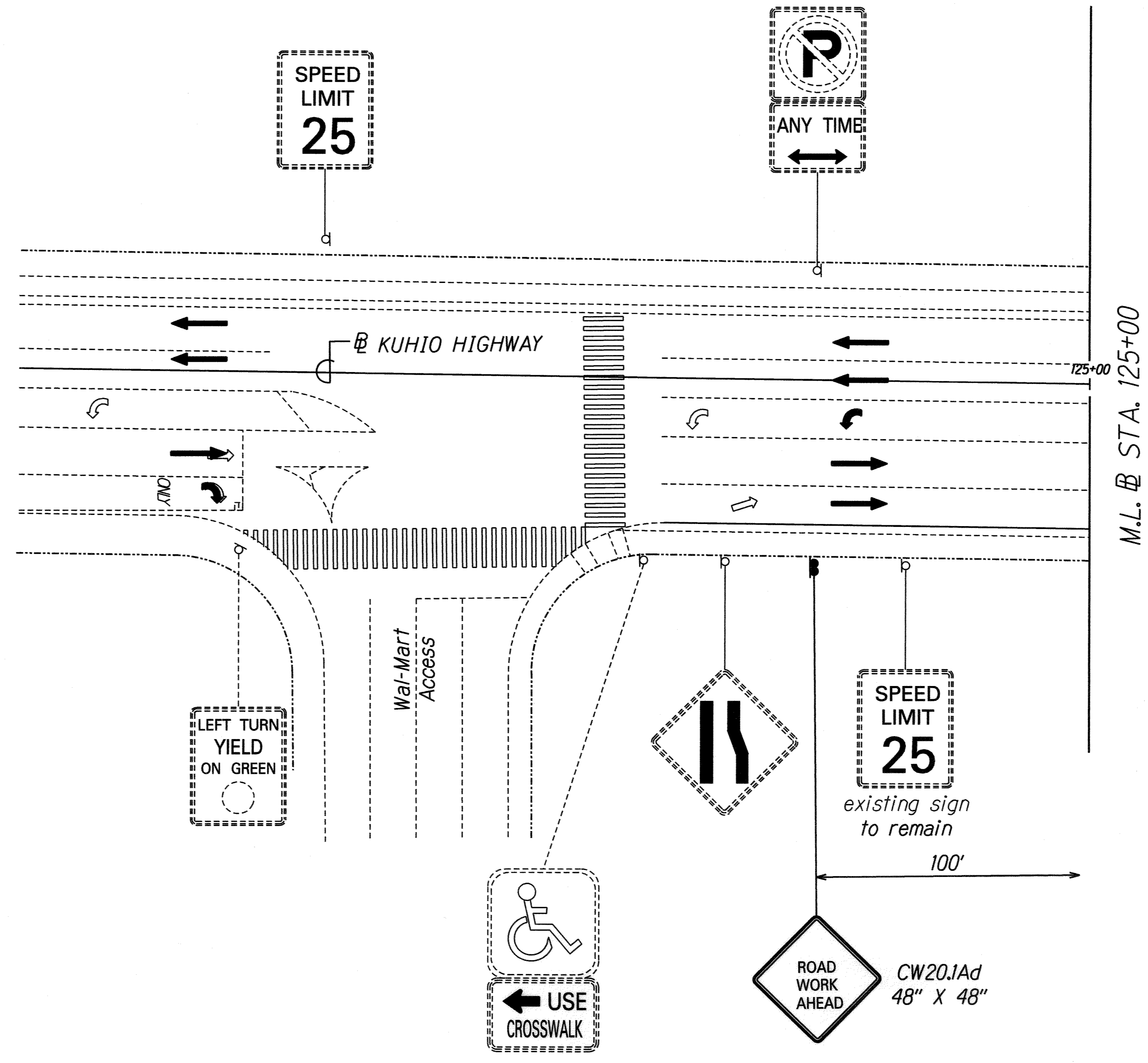
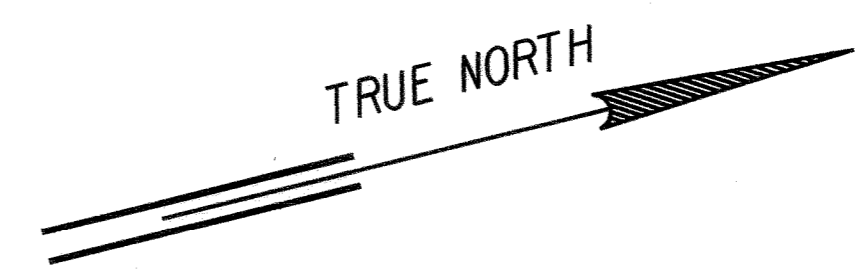
YY-EXISTING POSTED SPEED LIMIT (MPH)	XX-NEW CONSTRUCTION AREA SPEED LIMIT (MPH)	D-REDUCED SPEED LIMIT SIGN SPACING TO FIRST CONSTRUCTION AREA SPEED LIMIT SIGN (FEET)
≤ 25	EXIST. SPEED LIMIT TO REMAIN	
30	25	100
35	25	175
40	30	175

REVISIONS:
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FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	56A-02-05	2009	22	39

Legend:

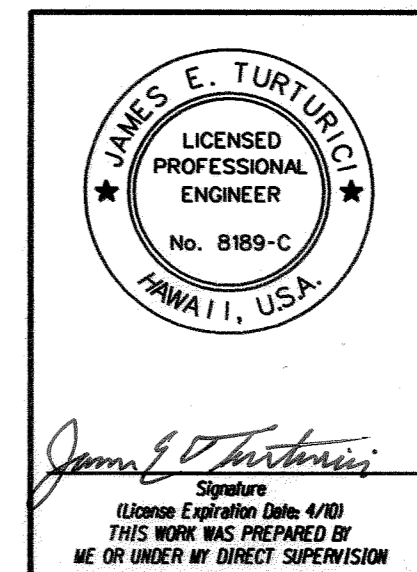
-  Sign
-  Cone or Delineator Barcade
-  Direction Of Traffic
-  Flagman
-  Work Area



M.L. @ STA. 125+00

SHOULDER CLOSED

DESIGNED BY	DATE
TRACED BY	X
DESIGNED BY	KODANI & ASSOCIATES
QUANTITIES BY	KODANI & ASSOCIATES
CHECKED BY	THP-A



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION





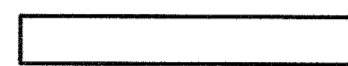
TRAFFIC CONTROL PLAN

Kuhio Highway Intersection Improvements
Eha Street
Project No. 56A-02-05

Scale: 1"=20' Date: April 2009

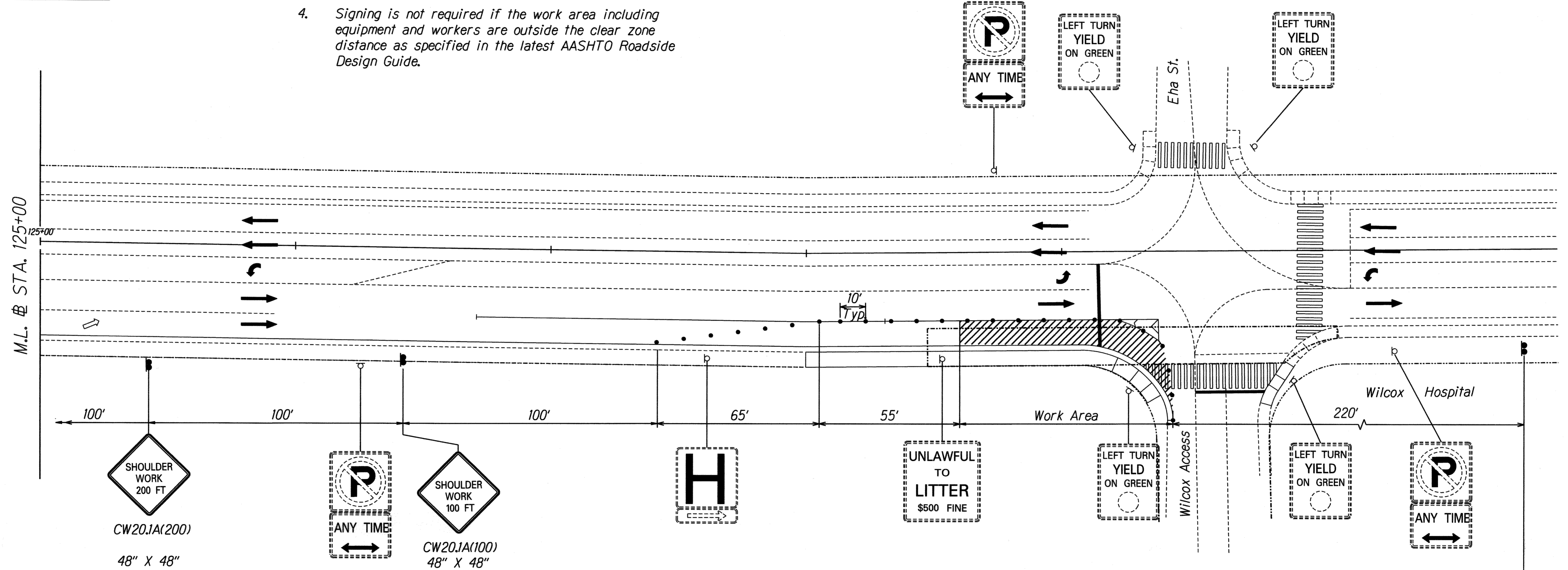
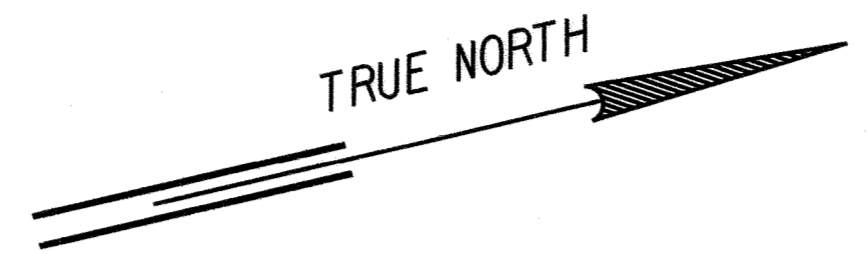
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	56A-02-05	2009	23	39

Legend:

-  Sign
-  Cone or Delineator Baracade
-  Direction Of Traffic
-  Flagman
-  Work Area

Notes:

1. This shoulder closed plan may be used only if all road work, including equipment and workers are off the travel way.
2. Engineer shall determine if advisory speed sign is necessary.
3. Contractor will provide necessary adjustments to accommodate bicyclist and pedestrians.
4. Signing is not required if the work area including equipment and workers are outside the clear zone distance as specified in the latest AASHTO Roadside Design Guide.



M.L. & STA. 125+00

SHOULDER WORK
200 FT
CW20.1A(200)
48" X 48"

ANY TIME
← →

SHOULDER WORK
100 FT
CW20.1A(100)
48" X 48"

H

UNLAWFUL
TO
LITTER
\$500 FINE

LEFT TURN
YIELD
ON GREEN

LEFT TURN
YIELD
ON GREEN

ANY TIME
← →

END
ROAD WORK

CG20-2A 48"
X 24"

SHOULDER CLOSED

DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
APPROVED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION





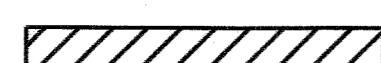
TRAFFIC CONTROL PLAN

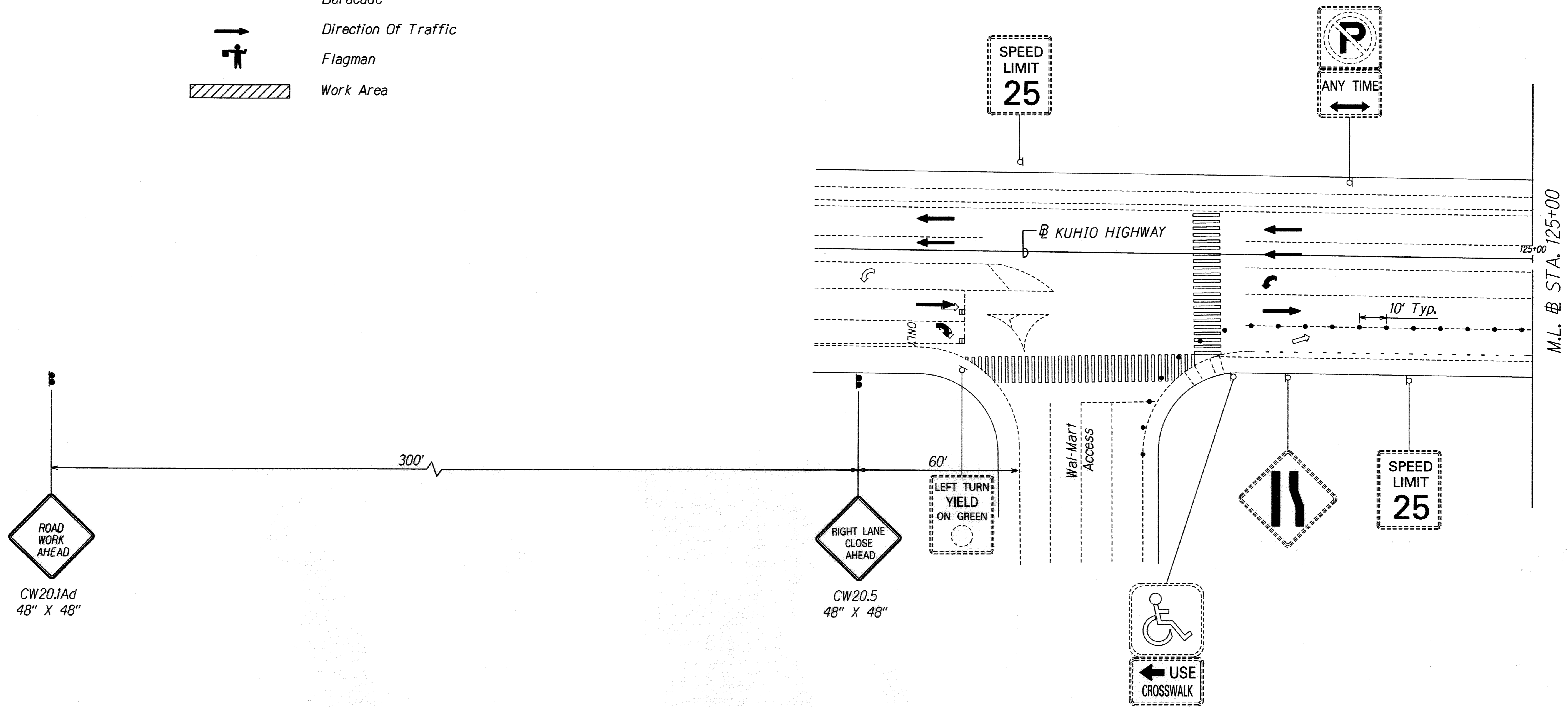
Kuhio Highway Intersection Improvements
Eha Street
Project No. 56A-02-05

Scale: 1"=20' Date: April 2009

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FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	56A-02-05	2009	24	39

- Legend:**
-  Sign
 -  Cone or Delineator Baracade
 -  Direction Of Traffic
 -  Flagman
 -  Work Area



DESIGNED BY	DATE
TRACED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
Revised/Sign	
N.	

ONE-LANE CLOSED

JAMES E. TURTURICI
 LICENSED PROFESSIONAL ENGINEER
 No. 8189-C
 HAWAII, U.S.A.

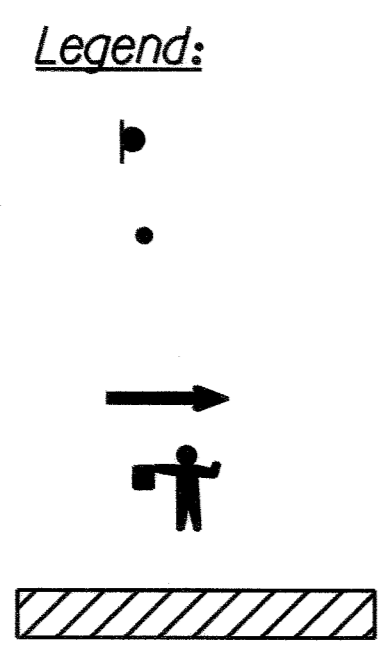
James E. Turturici
 Signature
 License Expiration Date: 4/30
 THIS WORK WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

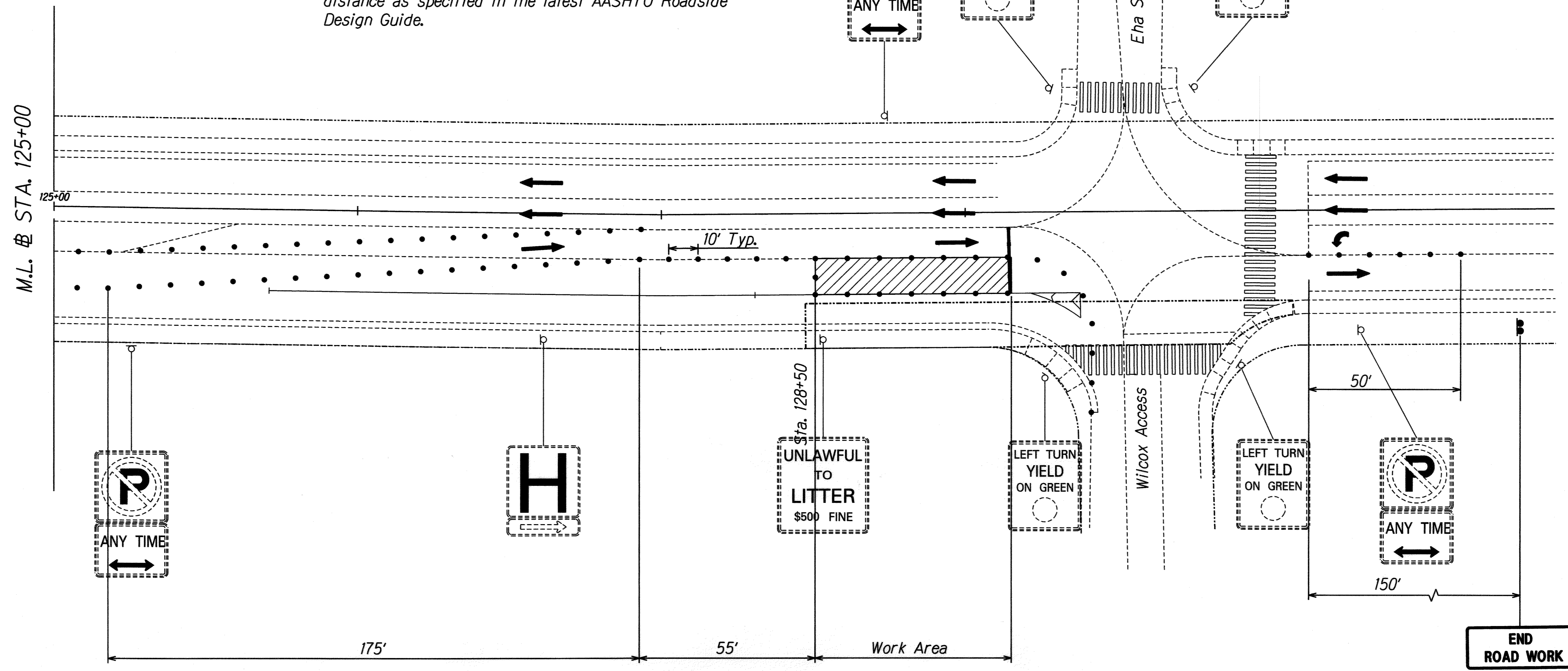
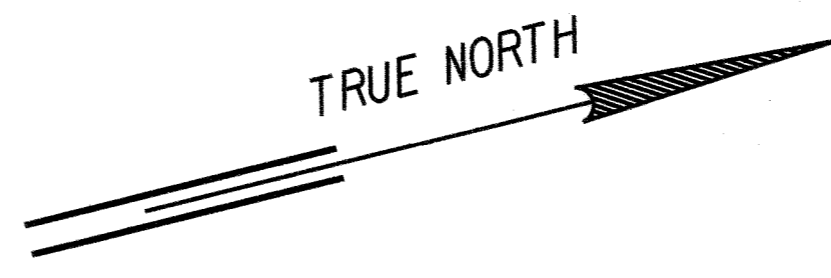
TRAFFIC CONTROL PLAN
Kuhio Highway Intersection Improvements
Eha Street
 Project No. 56A-02-05

Scale: 1"=20' Date: April 2009

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	56A-02-05	2009	25	39



- Notes:**
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 - Contractor will provide necessary adjustments to accommodate bicyclist and pedestrians.
 - Signing is not required if the work area including equipment and workers are outside the clear zone distance as specified in the latest AASHTO Roadside Design Guide.



ONE-LANE CLOSED

DESIGNED BY	DATE
TRACED BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
Fluorid/05/09	
N.	

James E. Turturici
Signature
License Expiration Date: 4/10
THIS WORK WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN

Kuhio Highway Intersection Improvements
Eha Street
Project No. 56A-02-05

Scale: 1"=20' Date: April 2009