

FED. ROAD DIST. NO.	STATE	FEDERAL - AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-A311(4)	2006	105	180

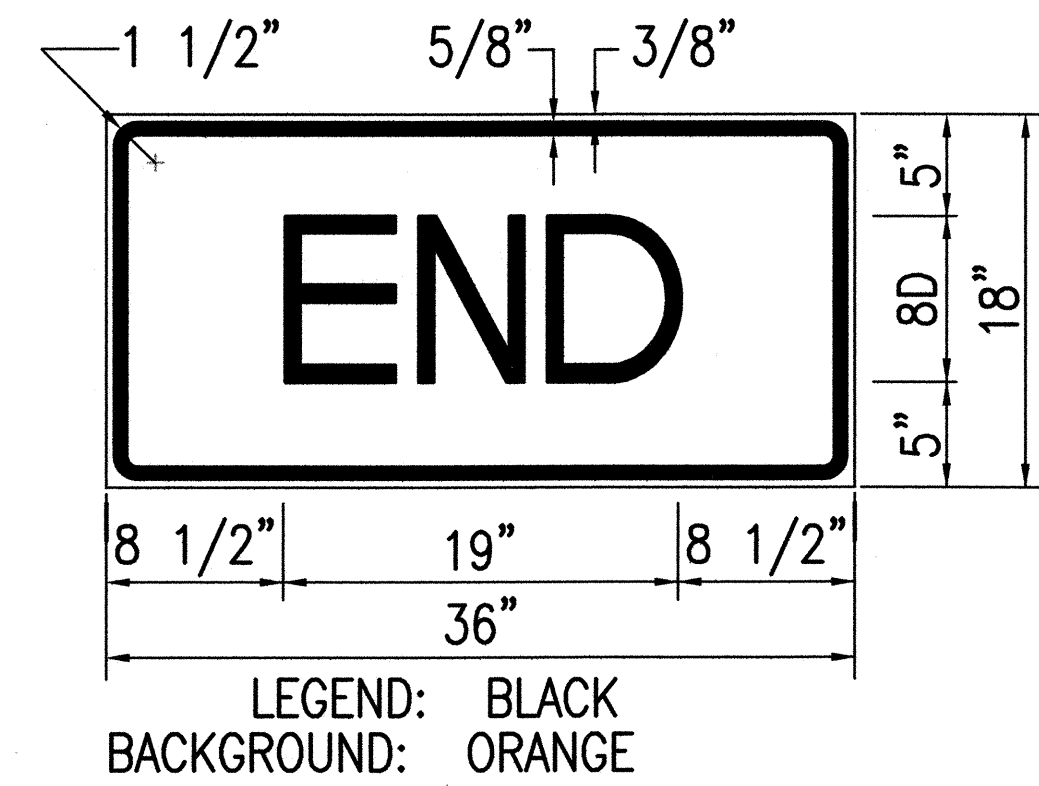
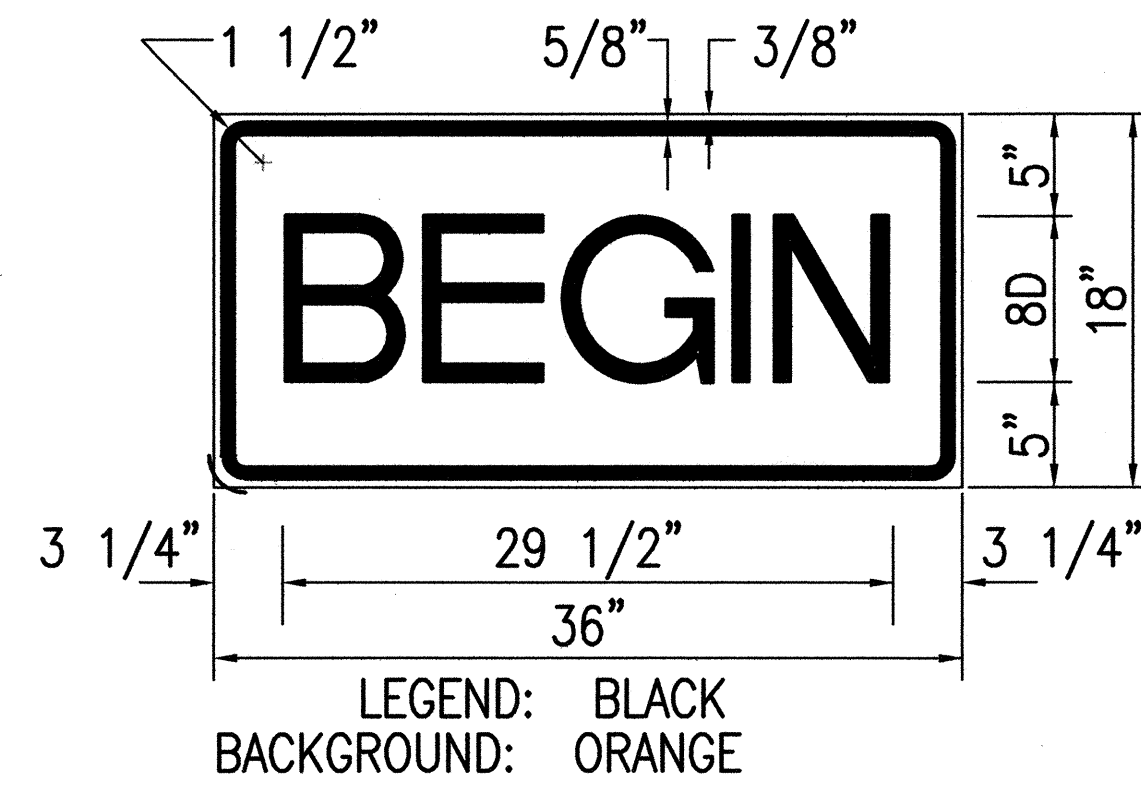
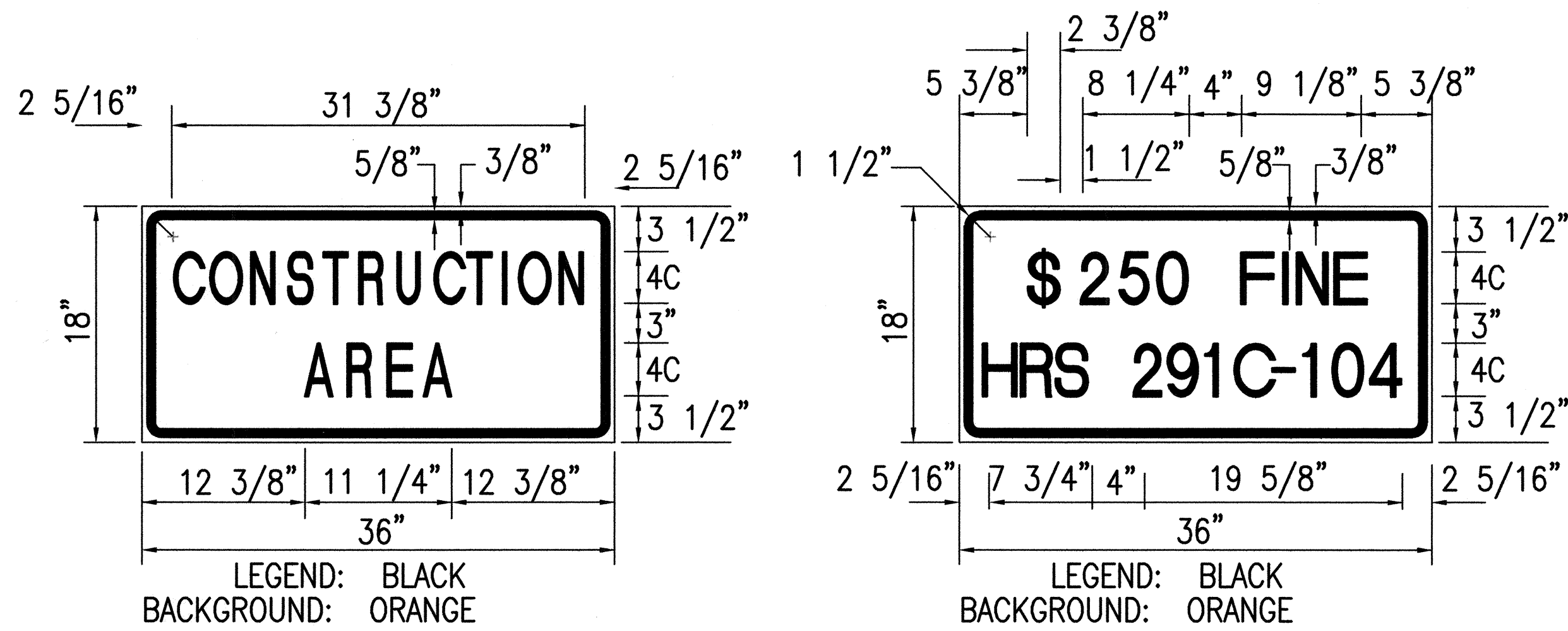
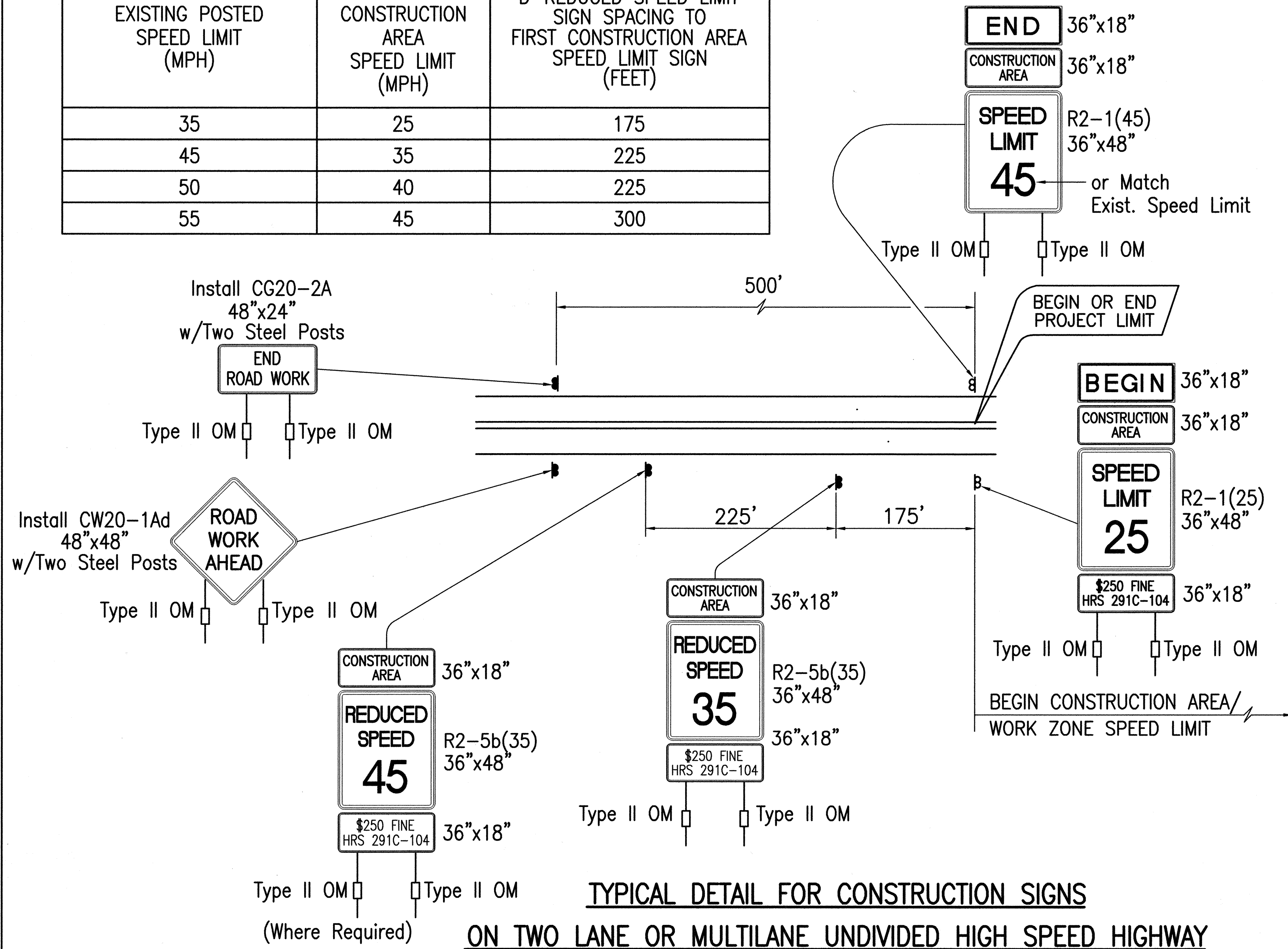


TABLE I GUIDELINE FOR ADVANCE PLACEMENT OF SPEED REDUCTION SIGN R2-5b(XX)-A, CONSTRUCTION AREA SPEED LIMIT		
EXISTING POSTED SPEED LIMIT (MPH)	XX-NEW CONSTRUCTION AREA SPEED LIMIT (MPH)	D-REDUCED SPEED LIMIT SIGN SPACING TO FIRST CONSTRUCTION AREA SPEED LIMIT SIGN (FEET)
35	25	175
45	35	225
50	40	225
55	45	300



Work Zone Note:

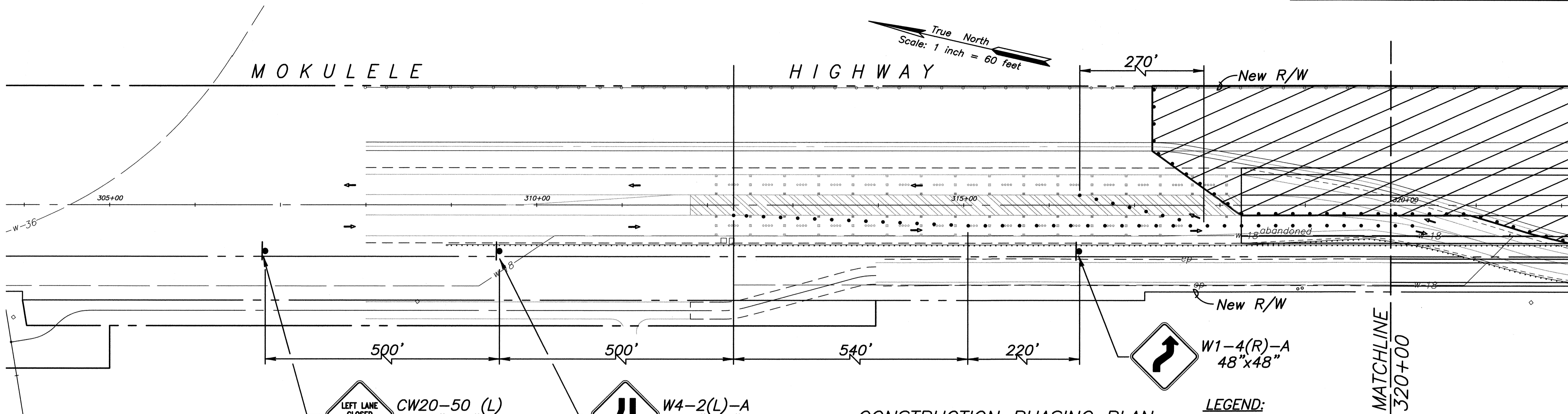
1. This Work Zone Sign Plan is intended for use on long-term stationary work zones/construction phases (3 days or more). All work zones or construction phases less than 3 days duration will use Traffic Control Plans shown in Section 645 of the Special Provisions.
2. All existing regulatory speed limit signs with posts within the work zone/project limits shall be removed and replaced with work zone speed limit sign assemblies (R2-1(XX) and R2-5b(XX) 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. 645.1000, 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. 645.1000, Traffic Control.

CLIFFORD M. ARAKAWA
LICENSED PROFESSIONAL ENGINEER
No. 1864-C
HAWAII U.S.A.

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04/30/06
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
WORK ZONE SIGNING PLAN
NOTES AND DETAILS
MOKULELE HIGHWAY WIDENING
Vicinity of Kealia Pond Driveway
To
Piilani Highway
Federal - Aid Project No. NH-A311(4)
Scale: NONE Date: July 2005
SHEET No. 1 OF 12 SHEETS

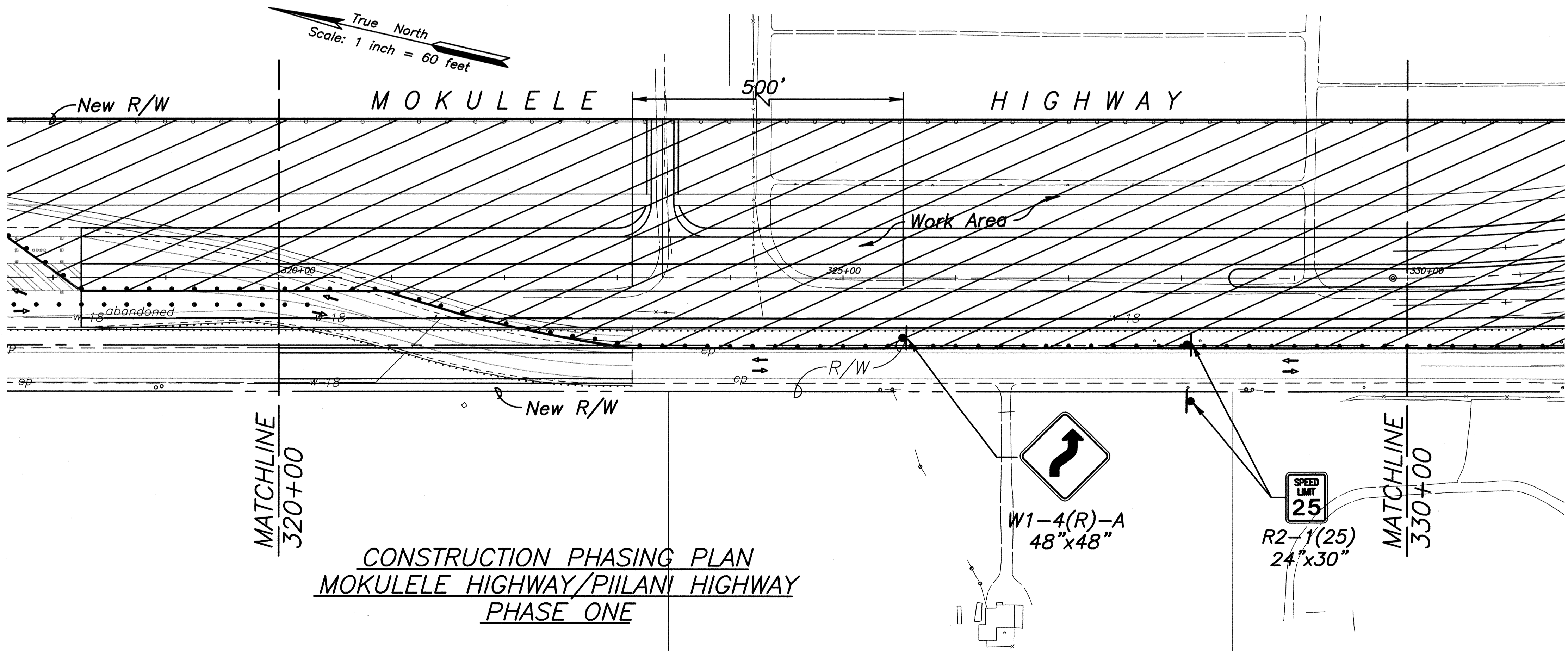
FED. ROAD DIST. NO.	STATE	FEDERAL - AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-A311(4)	2006	106	180



CONSTRUCTION PHASING PLAN
MOKULELE HIGHWAY/PIILANI HIGHWAY
PHASE ONE

- LEGEND:**
- Sign
 - Temporary Striping or Delineators
 - Type I barricade w/flashers (10' O.C. Max. Spacing) or water filled barriers when separation between construction zone and traffic is less than 10'.
 - Direction of Traffic
 - Flashing Arrow Sign
 - Police Officer/Flagger

- NOTES:**
- At night and/or during night work, Contractor shall use flashing barricades or barriers.
 - Contractor shall provide street lighting as directed by the Engineer. This work shall be paid for under item 645.2000.
 - For lane closures and work on shoulders adjacent to open lanes, see Section 645 of the Special Provisions for Traffic Control Plans.
 - See Sht. 105 For Construction signs.



CONSTRUCTION PHASING PLAN
MOKULELE HIGHWAY/PIILANI HIGHWAY
PHASE ONE

CLIFFORD M. ARAKAWA
LICENSED PROFESSIONAL ENGINEER
No. 1864-C
HAWAII U.S.A.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

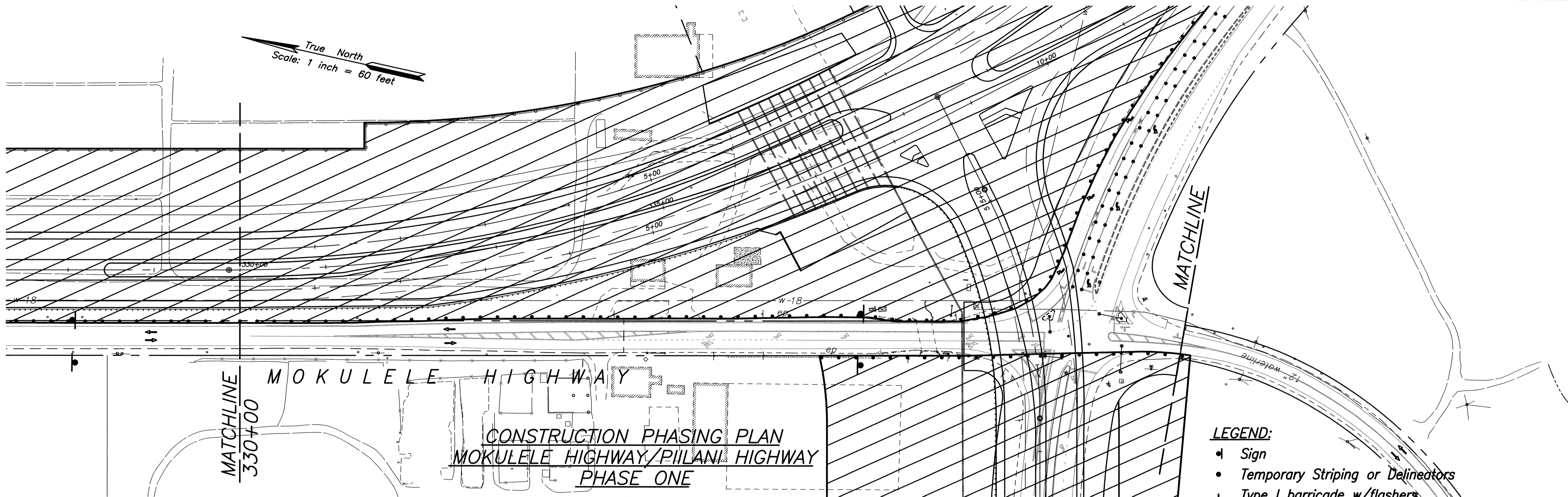
CONSTRUCTION PHASING PLAN

MOKULELE HIGHWAY WIDENING
Vicinity of Kealia Pond Driveway
To
Piilani Highway
Federal - Aid Project No. NH-A311(4)
Scale: 1"=60' Date: July 2005

SHEET No. 2 OF 13 SHEETS

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

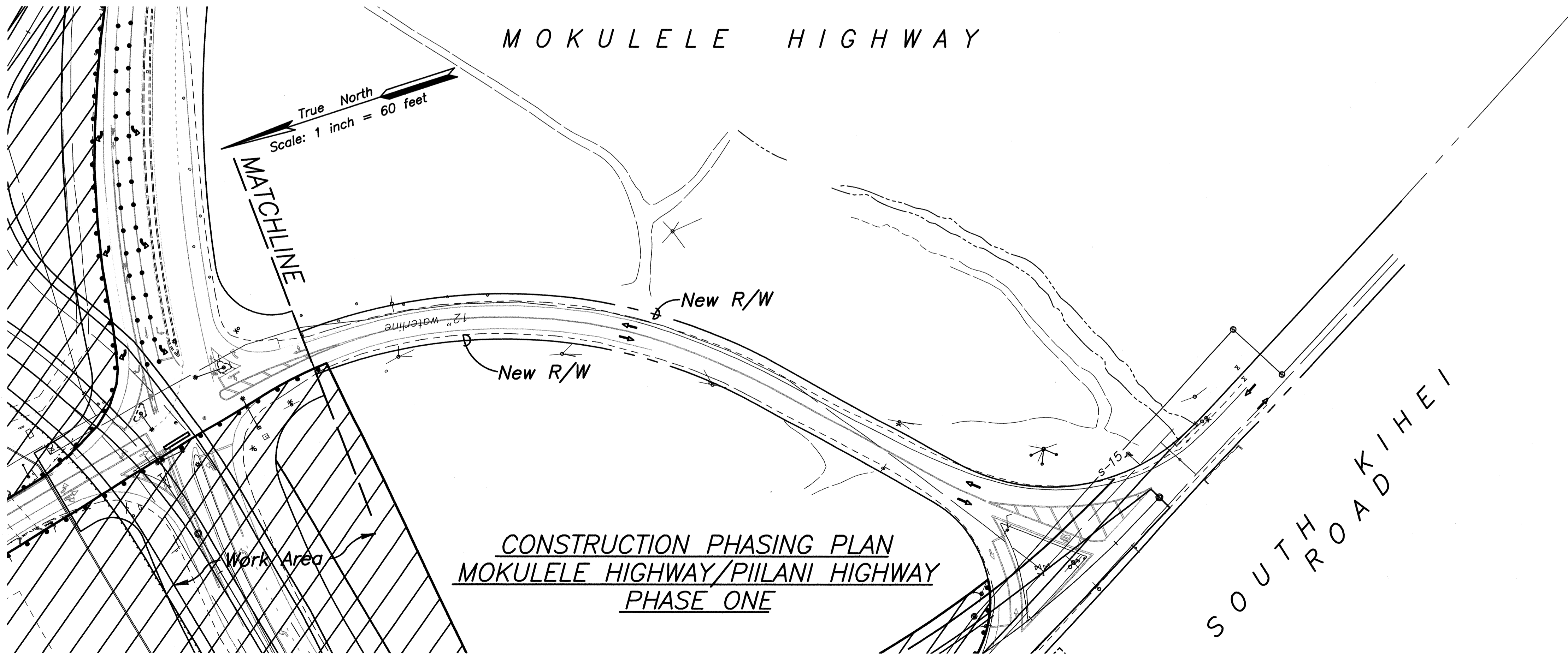
FED. ROAD DIST. NO.	STATE	FEDERAL - AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-A311(4)	2006	107	180



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 - See Sht. 105 For Construction Signs.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
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STATE OF HAWAII
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HIGHWAYS DIVISION

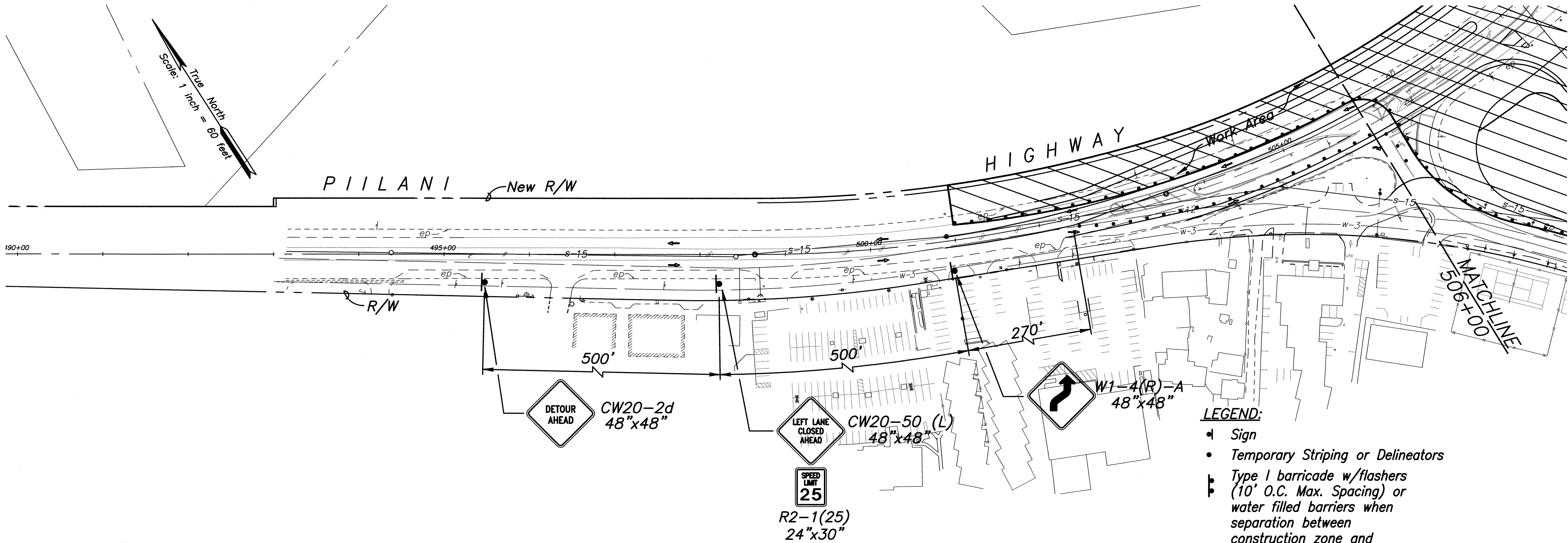
CONSTRUCTION PHASING PLAN

MOKULELE HIGHWAY WIDENING

Vicinity of Kealia Pond Driveway
To
Piilani Highway
Federal - Aid Project No. NH-A311(4)
Scale: 1"=60' Date: July 2005

SHEET No. 3 OF 13 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL - AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-A311(4)	2006	108	180



CONSTRUCTION PHASING PLAN
MOKULELE HIGHWAY/PIILANI HIGHWAY
PHASE ONE

LEGEND:

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- Type I barricade w/flashers (10' O.C. Max. Spacing) or water filled barriers when separation between construction zone and traffic is less than 10'.
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04/30/06

EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CONSTRUCTION PHASING PLAN

MOKULELE HIGHWAY WIDENING

Vicinity of Kealia Pond Driveway

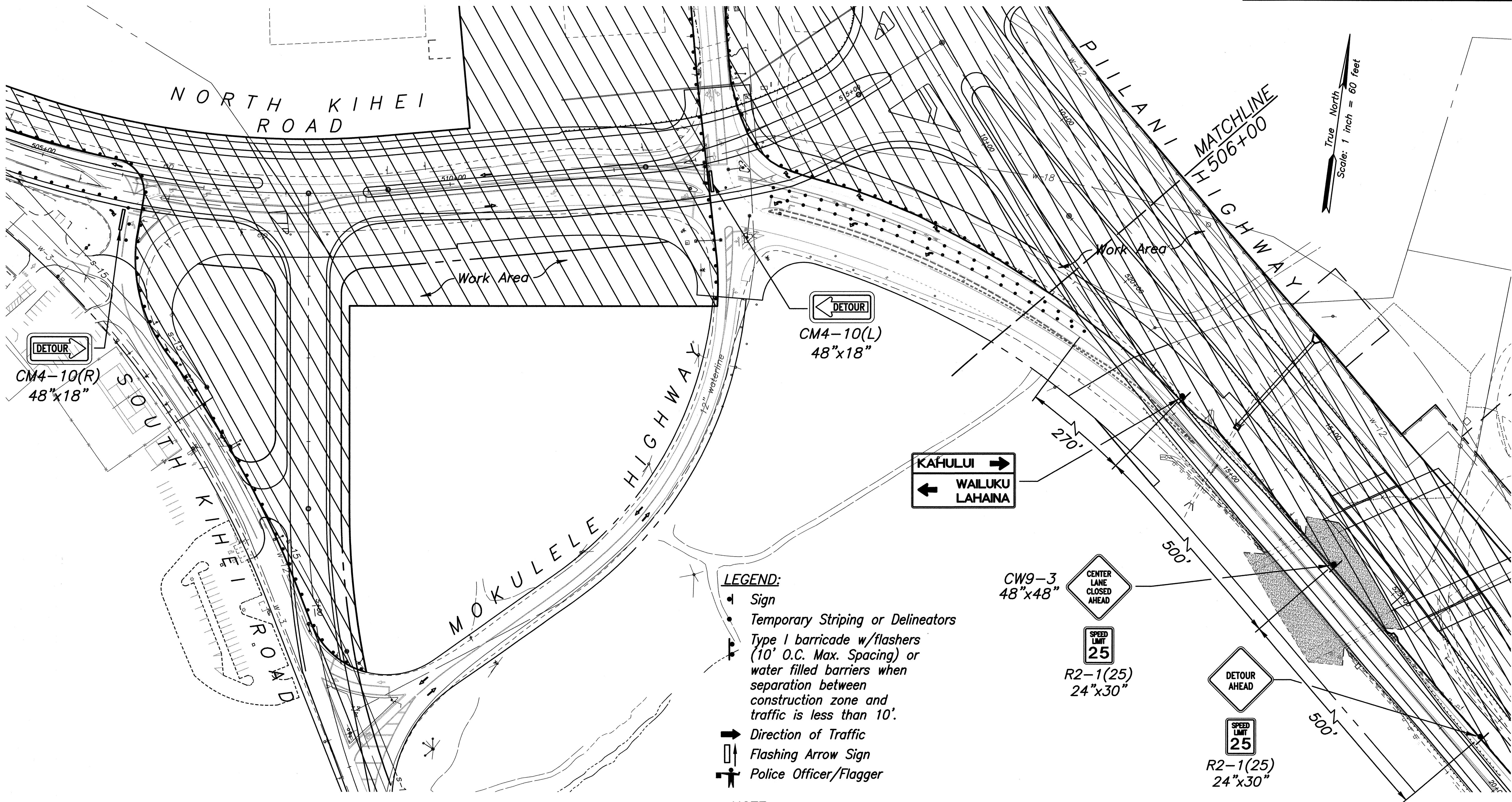
To
Piilani Highway

Federal - Aid Project No. NH-A311(4)

Scale: 1"=60' Date: July 2005

SHEET No. 4 OF 13 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL - AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-A311(4)	2006	109	180



CONSTRUCTION PHASING PLAN
MOKULELE HIGHWAY/PIILANI HIGHWAY
PHASE ONE

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

CLIFFORD M. ARAKAWA
LICENSED PROFESSIONAL ENGINEER
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HAWAII U.S.A.

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04/30/06
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CONSTRUCTION PHASING PLAN

MOKULELE HIGHWAY WIDENING

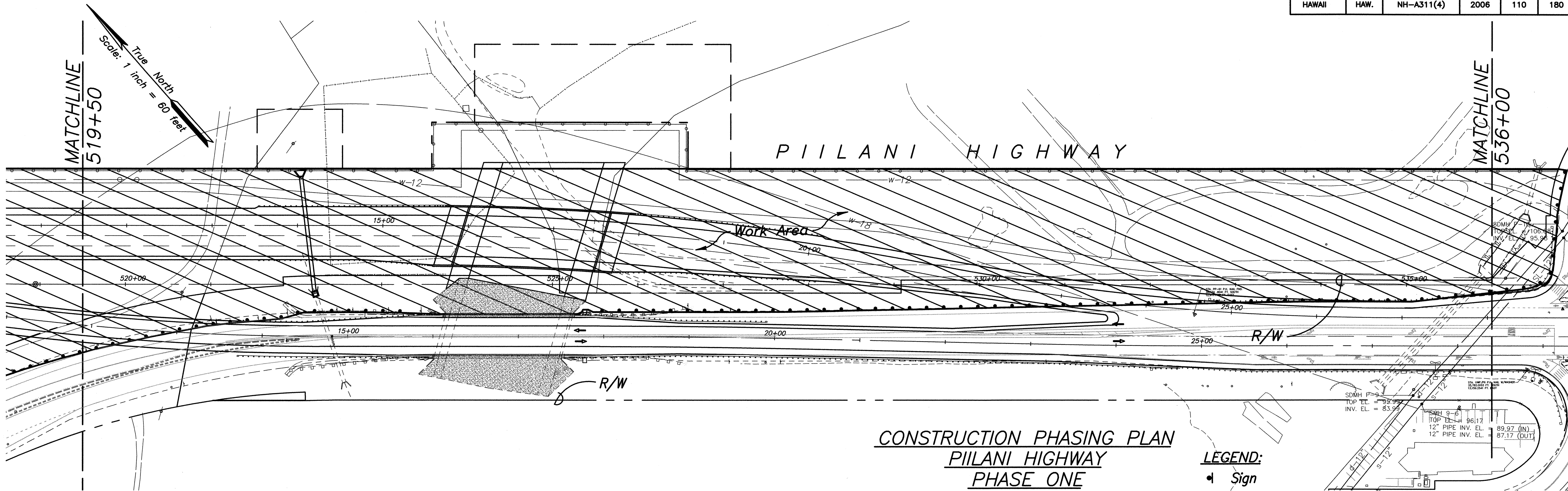
Vicinity of Kealia Pond Driveway To Piilani Highway

Federal - Aid Project No. NH-A311(4)

Scale: 1"=60' Date: July 2005

SHEET No. 5 OF 13 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL - AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-A311(4)	2006	110	180



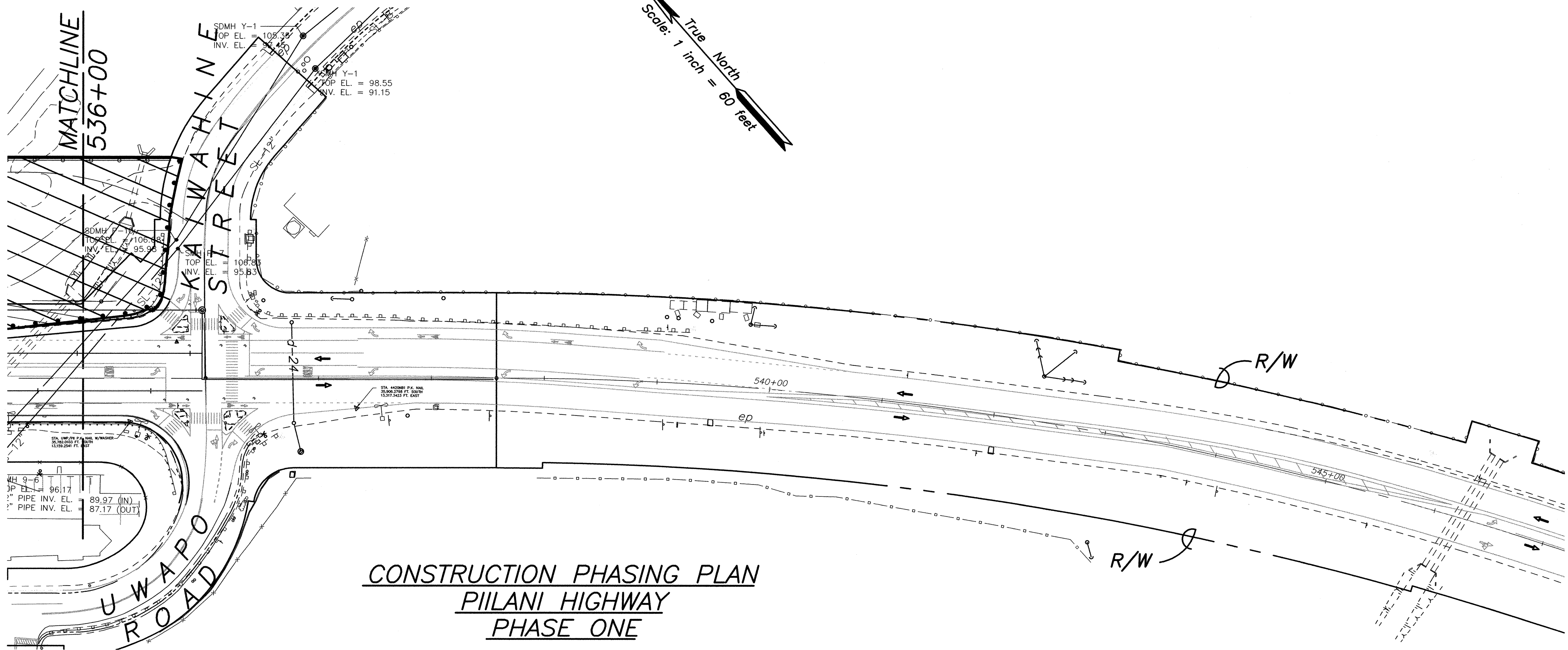
CONSTRUCTION PHASING PLAN PIILANI HIGHWAY PHASE ONE

LEGEND:

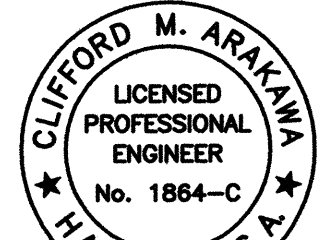
- Sign
- Temporary Striping or Delineators
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CONSTRUCTION PHASING PLAN PIILANI HIGHWAY PHASE ONE



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04/30/06
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CONSTRUCTION PHASING PLAN

MOKULELE HIGHWAY WIDENING

Vicinity of Kealia Pond Driveway

To
Piilani Highway

Federal - Aid Project No. NH-A311(4)

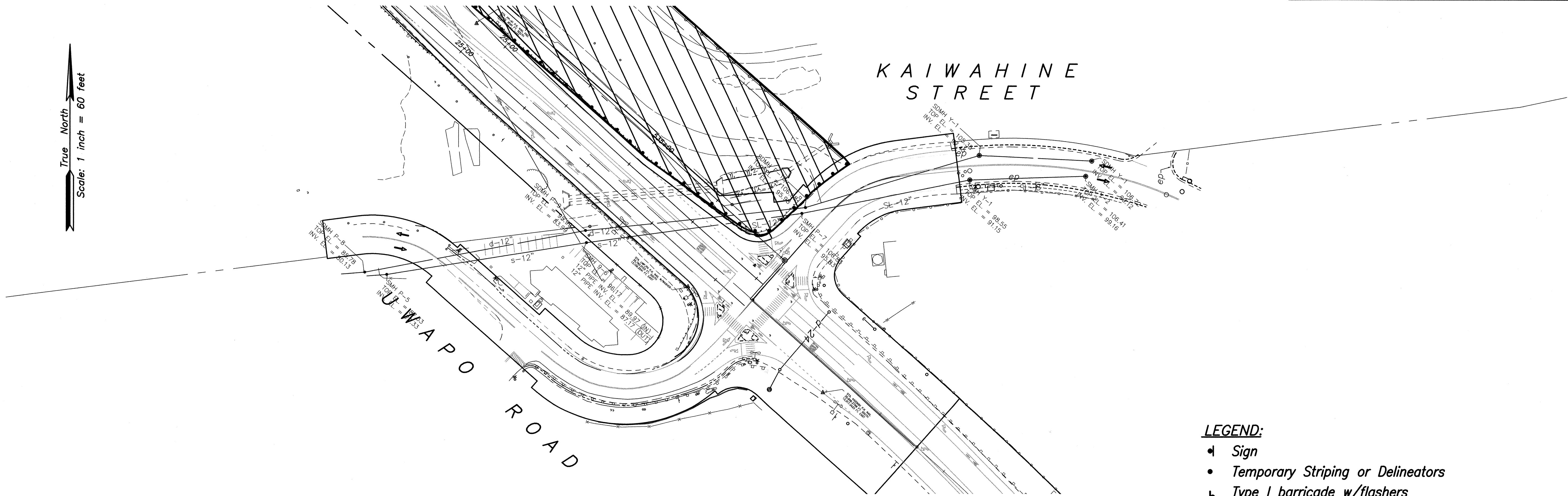
Scale: 1"=60'

Date: July 2005

SHEET No. 5 OF 13 SHEETS

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

FED. ROAD DIST. NO.	STATE	FEDERAL - AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-A311(4)	2006	111	180



**CONSTRUCTION PHASING PLAN
PIILANI HIGHWAY
PHASE ONE**

LEGEND:

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	CHECKED BY	
No.		

CLIFFORD M. ARAKAWA
LICENSED PROFESSIONAL ENGINEER
No. 1864-C
HAWAII U.S.A.

Clifford M. Arakawa

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04/30/06

EXPIRATION DATE OF THE LICENSE

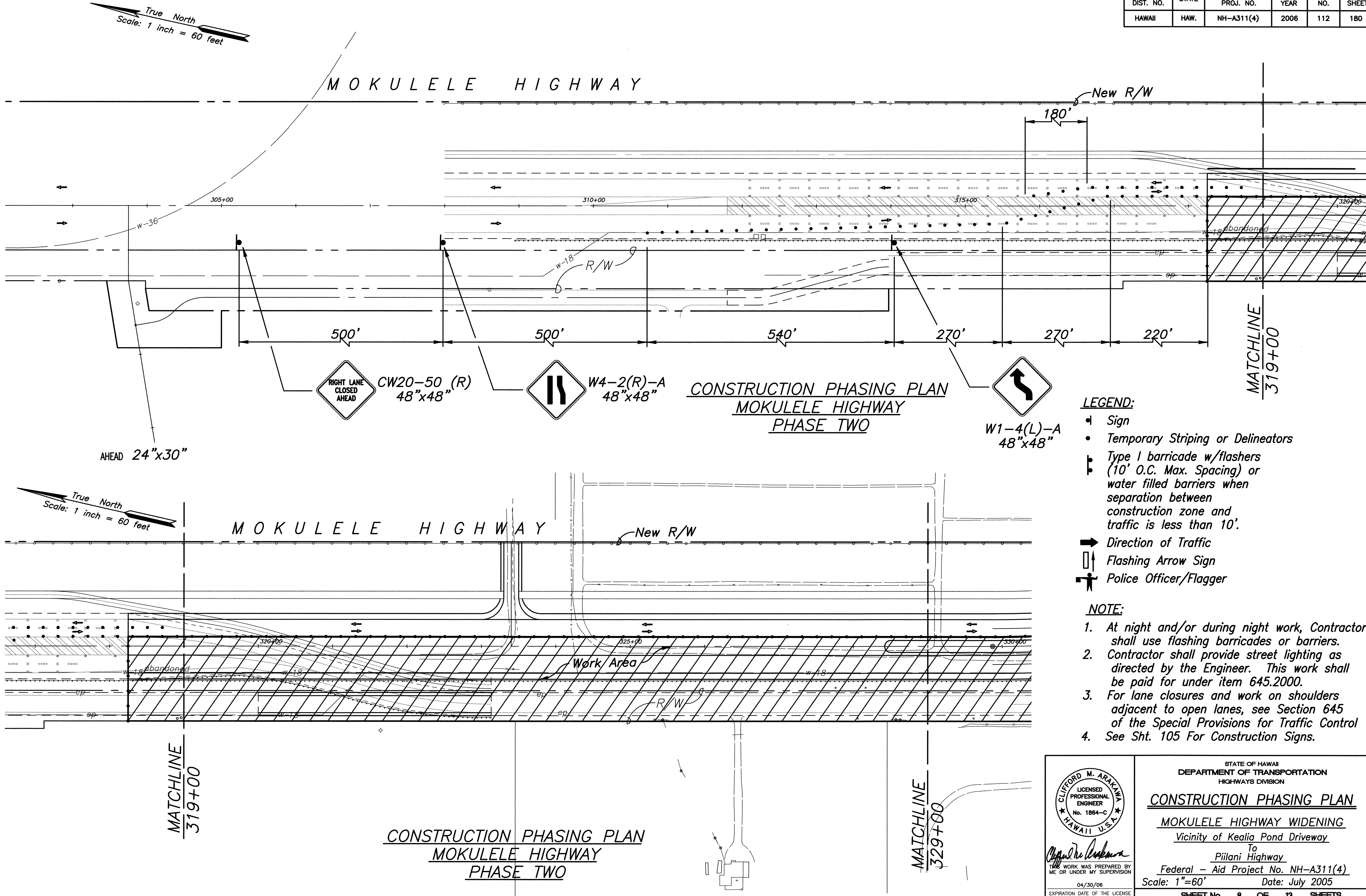
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CONSTRUCTION PHASING PLAN

MOKULELE HIGHWAY WIDENING
Vicinity of Kealia Pond Driveway
To
Piilani Highway
Federal - Aid Project No. NH-A311(4)
Scale: 1"=60' Date: July 2005

SHEET No. 7 OF 13 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL - AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-A311(4)	2006	112	180



- LEGEND:**
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 - See Sht. 105 For Construction Signs.

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

CLIFFORD M. ARAKAWA
LICENSED PROFESSIONAL ENGINEER
No. 1864-C
HAWAII U.S.C.

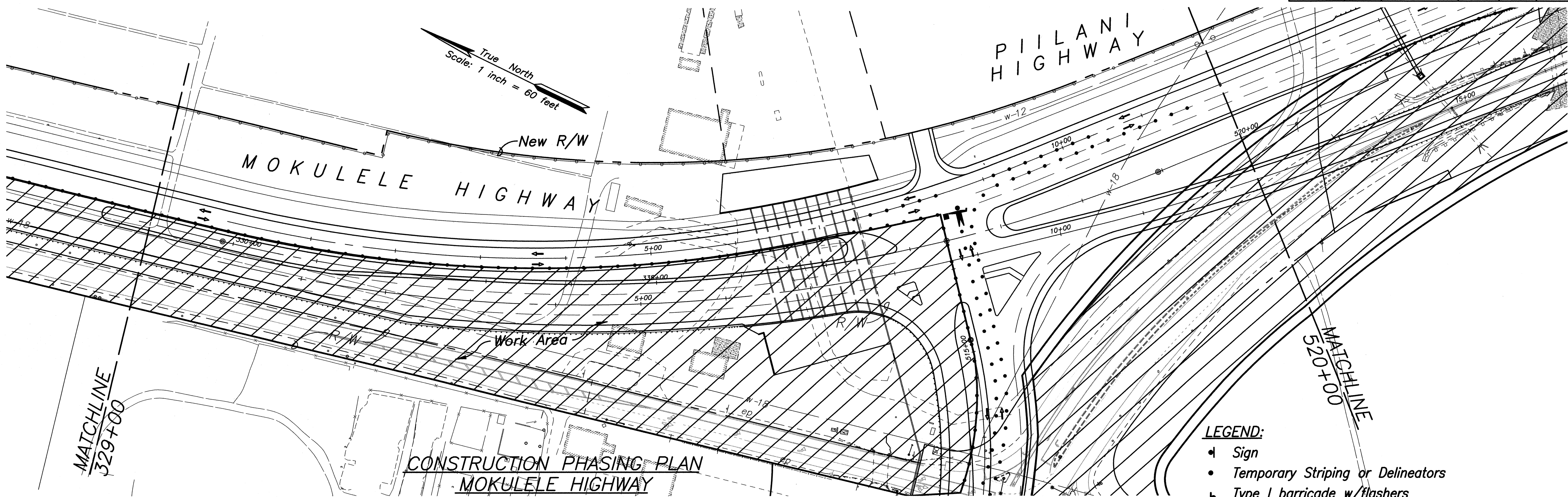
WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
04/30/06
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CONSTRUCTION PHASING PLAN
MOKULELE HIGHWAY WIDENING
Vicinity of Kealia Pond Driveway
To
Piilani Highway
Federal - Aid Project No. NH-A311(4)
Scale: 1"=60' Date: July 2005

SHEET No. 8 OF 13 SHEETS

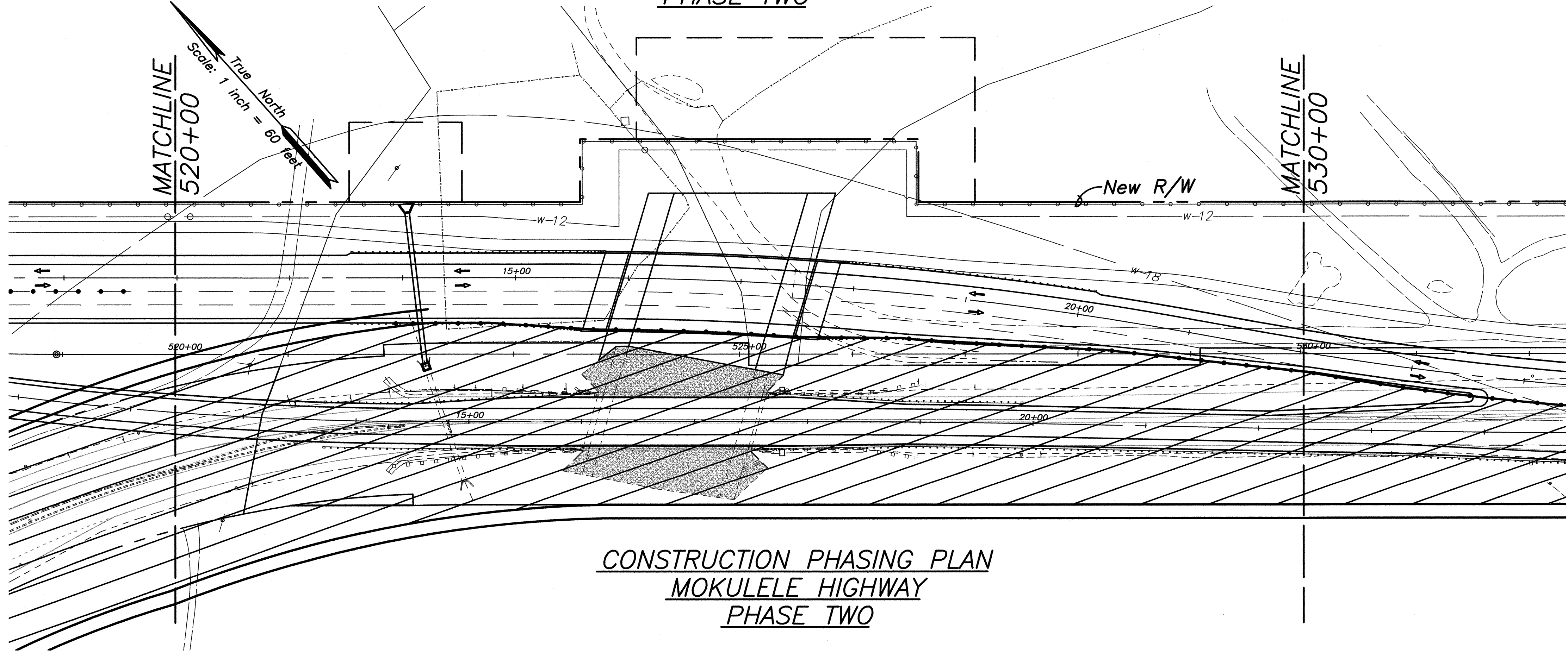
FED. ROAD DIST. NO.	STATE	FEDERAL - AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-A311(4)	2006	113	180



**CONSTRUCTION PHASING PLAN
MOKULELE HIGHWAY
PHASE TWO**

- LEGEND:**
- Sign
 - Temporary Striping or Delineators
 - Type I barricade w/flashers (10' O.C. Max. Spacing) or water filled barriers when separation between construction zone and traffic is less than 10'.
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**CONSTRUCTION PHASING PLAN
MOKULELE HIGHWAY
PHASE TWO**

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

CLIFFORD M. ARAKAWA
LICENSED PROFESSIONAL ENGINEER
No. 1864-C
HAWAII U.S.A.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CONSTRUCTION PHASING PLAN

MOKULELE HIGHWAY WIDENING

Vicinity of Kealia Pond Driveway

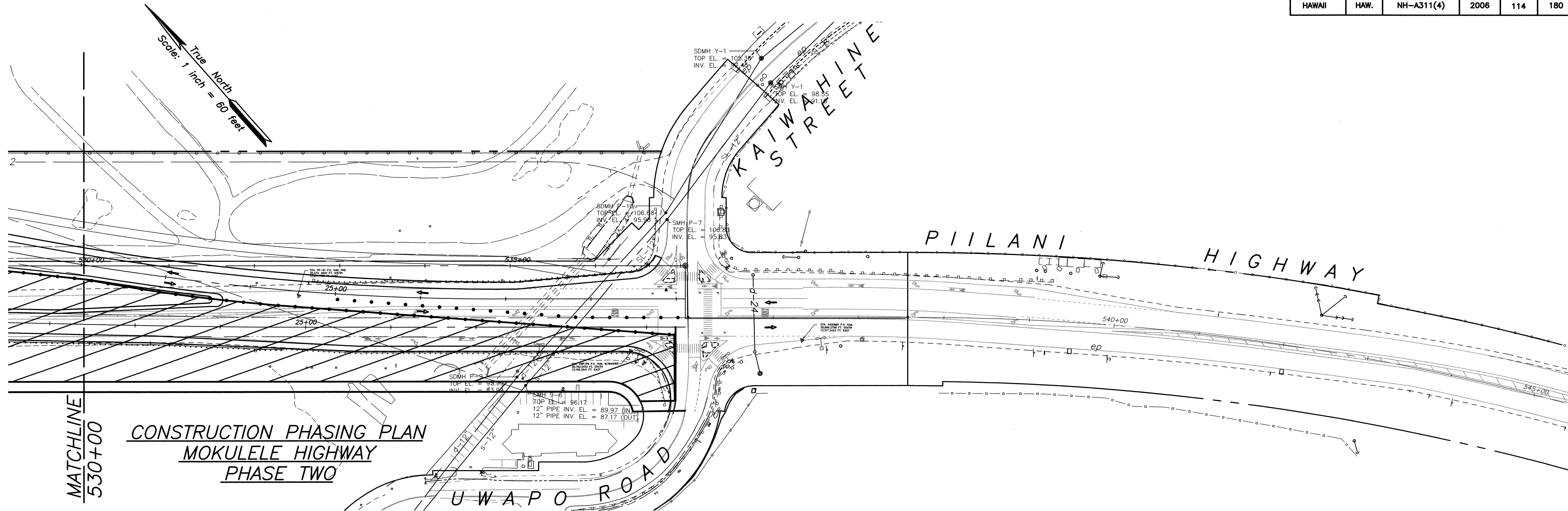
To
Piilani Highway

Federal - Aid Project No. NH-A311(4)

Scale: 1"=60' Date: July 2005

SHEET No. 9 OF 13 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL - AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-A311(4)	2006	114	180



CONSTRUCTION PHASING PLAN
MOKULELE HIGHWAY
PHASE TWO

NOTE:

1. At night and/or during night work, Contractor shall use flashing barricades or barriers.
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LEGEND:

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- ⬆ Flashing Arrow Sign
- ⚠ Police Officer/Flagger

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	2/18/04
DESIGNED BY		
CHECKED BY		
No.		

CLIFFORD M. ARAKAWA
LICENSED PROFESSIONAL ENGINEER
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HAWAII U.S.A.

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04/30/06
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

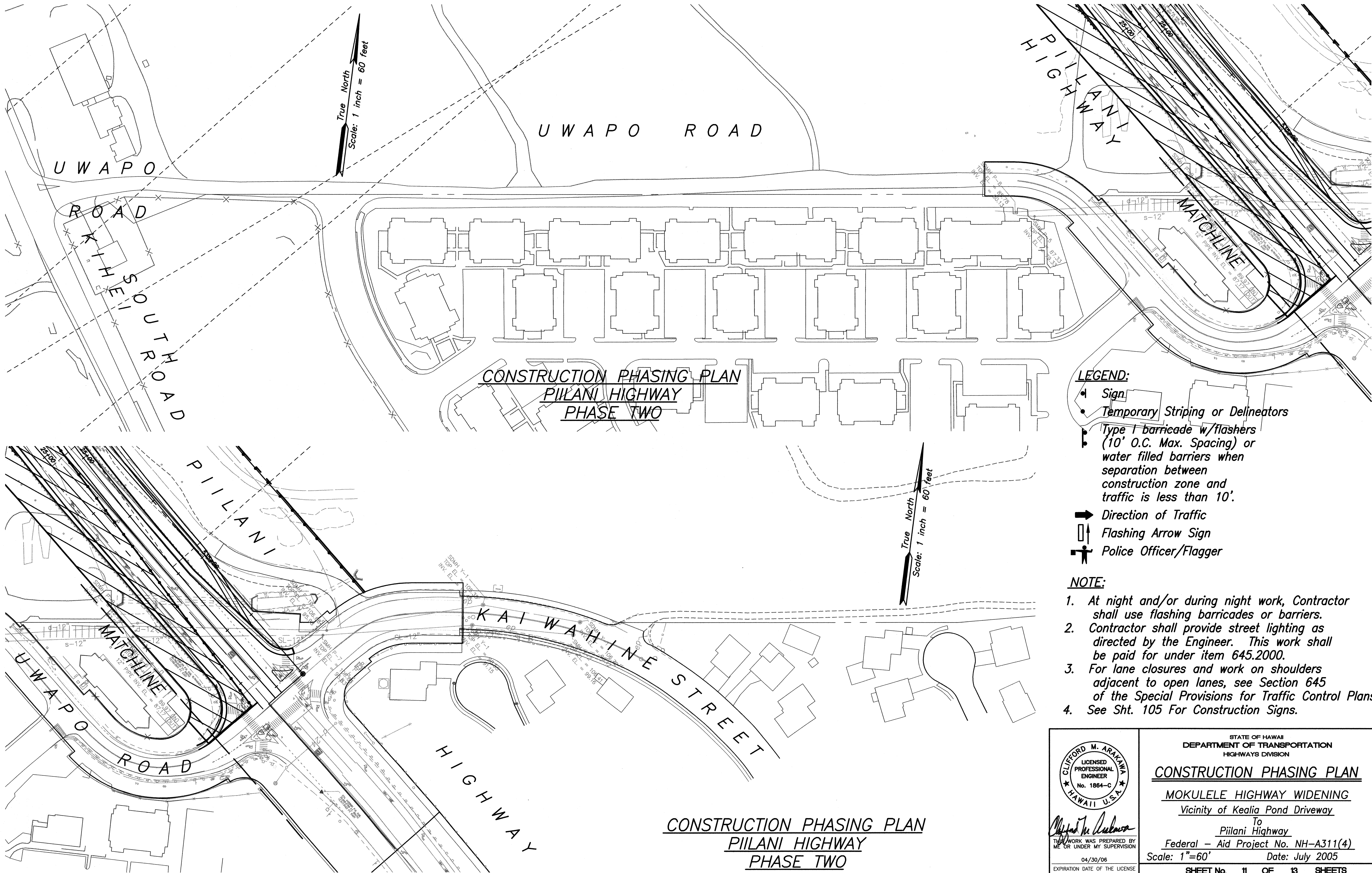
CONSTRUCTION PHASING PLAN

MOKULELE HIGHWAY WIDENING

Vicinity of Kealia Pond Driveway
To
Piilani Highway
Federal - Aid Project No. NH-A311(4)
Scale: 1"=60' Date: July 2005

SHEET No. 10 OF 13 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL - AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-A311(4)	2006	115	180



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

CLIFFORD M. ARAKAWA
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No. 1864-C
HAWAII U.S.A.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CONSTRUCTION PHASING PLAN

MOKULELE HIGHWAY WIDENING
Vicinity of Kealia Pond Driveway
To
Piilani Highway
Federal - Aid Project No. NH-A311(4)
Scale: 1"=60' Date: July 2005

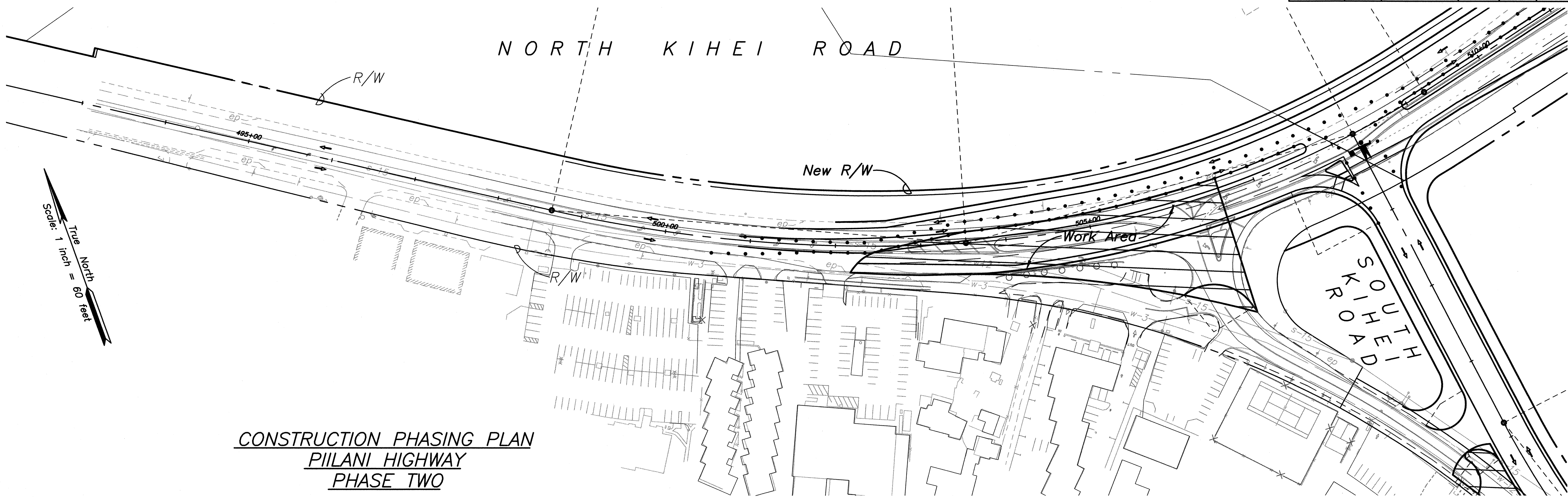
SHEET No. 11 OF 13 SHEETS

WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

04/30/06

EXPIRATION DATE OF THE LICENSE

FED. ROAD DIST. NO.	STATE	FEDERAL - AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-A311(4)	2006	116	180



CONSTRUCTION PHASING PLAN
PIILANI HIGHWAY
PHASE TWO

NOTE:

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- ⬆ Flashing Arrow Sign
- 🚧 Police Officer/Flagger

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

CLIFFORD M. ARAI
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 HAWAII U.S.A.

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 04/30/06
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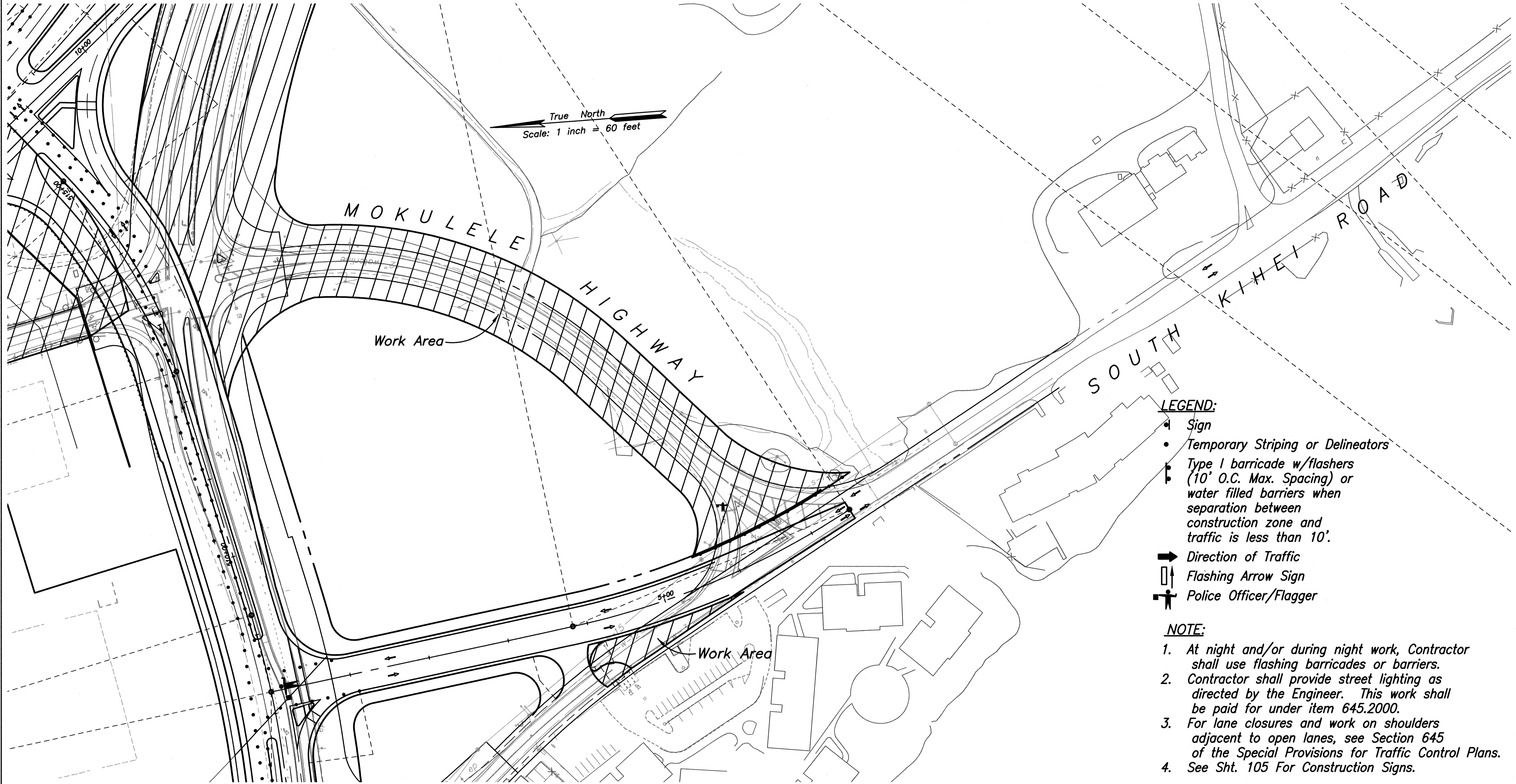
STATE OF HAWAII
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CONSTRUCTION PHASING PLAN

MOKULELE HIGHWAY WIDENING
Vicinity of Kealia Pond Driveway
To
Piilani Highway
Federal - Aid Project No. NH-A311(4)
Scale: 1"=60' Date: July 2005

SHEET No. 12 OF 13 SHEETS

FED. ROAD DIST. NO.	STATE	FEDERAL - AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-A311(4)	2006	117	180



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

**CONSTRUCTION PHASING PLAN
PIILANI HIGHWAY
PHASE TWO**

CLIFFORD M. ARAKAWA
LICENSED PROFESSIONAL ENGINEER
No. 1864-C
HAWAII U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
04/30/06
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CONSTRUCTION PHASING PLAN

MOKULELE HIGHWAY WIDENING
Vicinity of Kealia Pond Driveway
To
Piilani Highway
Federal - Aid Project No. NH-A311(4)
Scale: 1"=60' Date: July 2005

SHEET No. 13 OF 13 SHEETS