

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-099-1(18)	1999	36	71

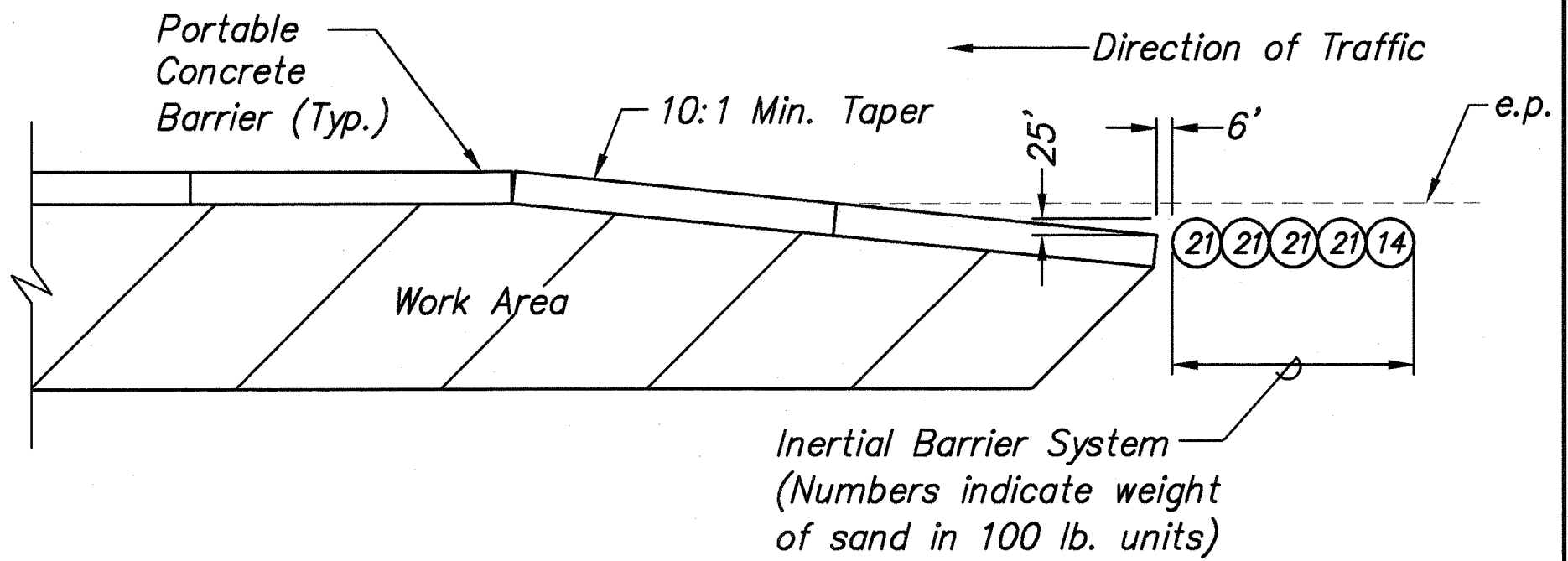
Table 1 For Traffic Control Plan

Posted Speed Limits (M.P.H.)	Sign Spacing (D) (Feet)	Taper Length (T) (Feet)		Longitudinal buffer space (B) (Feet)	Spacing of cones or delineators (Feet)		
		W = 12' of less ①	W = Greater than 12' ①		Taper	Tangent	Work Area
20	250	200	W x 17	35	20	20	10
25	250	200	W x 17	55	20	20	10
30	250	250	W x 20	85	30	30	10
35	250	250	W x 20	120	35	35	10
40	500	350	W x 30	170	40	40	10
45	500	550	W x 45	220	45	45	10
50	1000	600	W x 50	280	50	50	10
55	1000	700	W x 55	335	55	55	10

Notes

- Posted speed limit = 25 MPH
- "One Lane Road" (CW20-4) and "Flagger Ahead" (CW20-7(D)-A) signs shall be removed or covered when no work is being done.
- Sign spacing length (D) is shown in Table above.
- Cover existing "Speed Limit" signs within traffic control work area/signing limits.

① W = Width of lane, shoulder, or offset

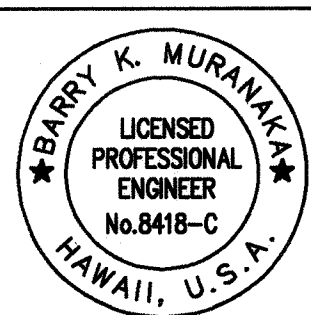


TYPICAL DETAIL

5-MODULE INERTIAL BARRIER

Scale: 1" = 10'

DATE REVISION



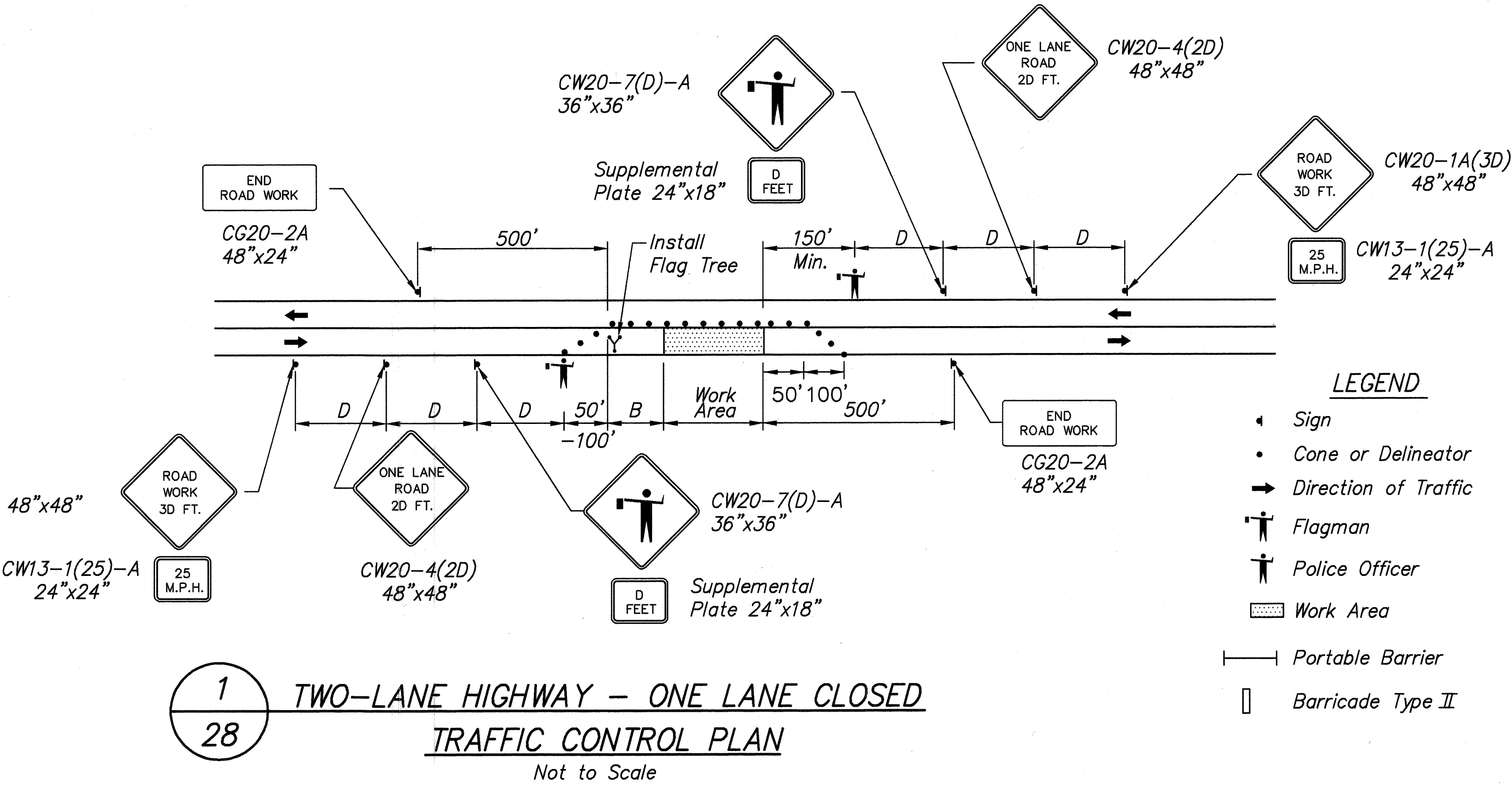
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**CONSTRUCTION PHASING
NOTES, DETAIL, LEGEND**

WILIKINA DR. INTERSECTION IMPROVEMENTS
AT KAMANANUI ROAD
Federal Aid Project No. STP-099-1(18)

Scale: As shown

Date: June 1999

SHEET NO. 1 OF 7 SHEETS



GENERAL NOTES FOR TRAFFIC CONTROL PLAN

- The Contractor shall make minor adjustments at intersections, driveways, bridges, structures, etc. to fit field conditions.
- Cones or delineators shall be extended to a point where they are visible to approaching traffic.
- Traffic control devices shall be installed such that the sign or device farthest from the work area is placed first. The others shall then be placed progressively toward the work area.
- Regulatory and warning signs within the construction zone that are in conflict with the traffic control plans shall be removed or covered. All signs shall be restored upon completion of work.
- Flaggers and/or police officers shall be in sight of each other or in direct communication at all times.
- When required by the issuing office, the Contractor shall install a flashing arrow signal as shown on the traffic control plans.
- All traffic lanes shall be a minimum of ten (10) feet wide.
- All construction warning signs shall be promptly removed or covered whenever the message is not applicable or not in use.
- The backs of all signs used traffic control shall be appropriately covered to preclude the display of inapplicable sign messages (i.e. When signs have messages on both faces).
- As soon as the day's work is completed, the Contractor shall remove all traffic control devices no longer needed to permit free and safe passage of public traffic. Removal shall be in the reverse order of installation. Existing faded or obliterated pavement markings that are necessary for safe traffic flow in the construction area shall be replaced with temporary or permanent markings before opening the roadway to public traffic each day.
- Permanent pavement markings and traffic signs shall be replaced upon completion of each phase of work.
- Sign spacings and taper lengths shall be as shown on the traffic control plan.
- Cones and delineators shall be spaced at a maximum distance of 20 feet apart. A minimum of six channelizing devices shall be used for each taper length.
- Contractor shall control traffic going in and out of driveway(s).
- Buffer and taper areas on approach to any work site shall be kept clear of vehicles and equipment.
- Payment for Traffic Control shall be incidental to the various contract items.

APPROVED:

Chief, Traffic Review Branch, D.P.P.

6/16/99
Date

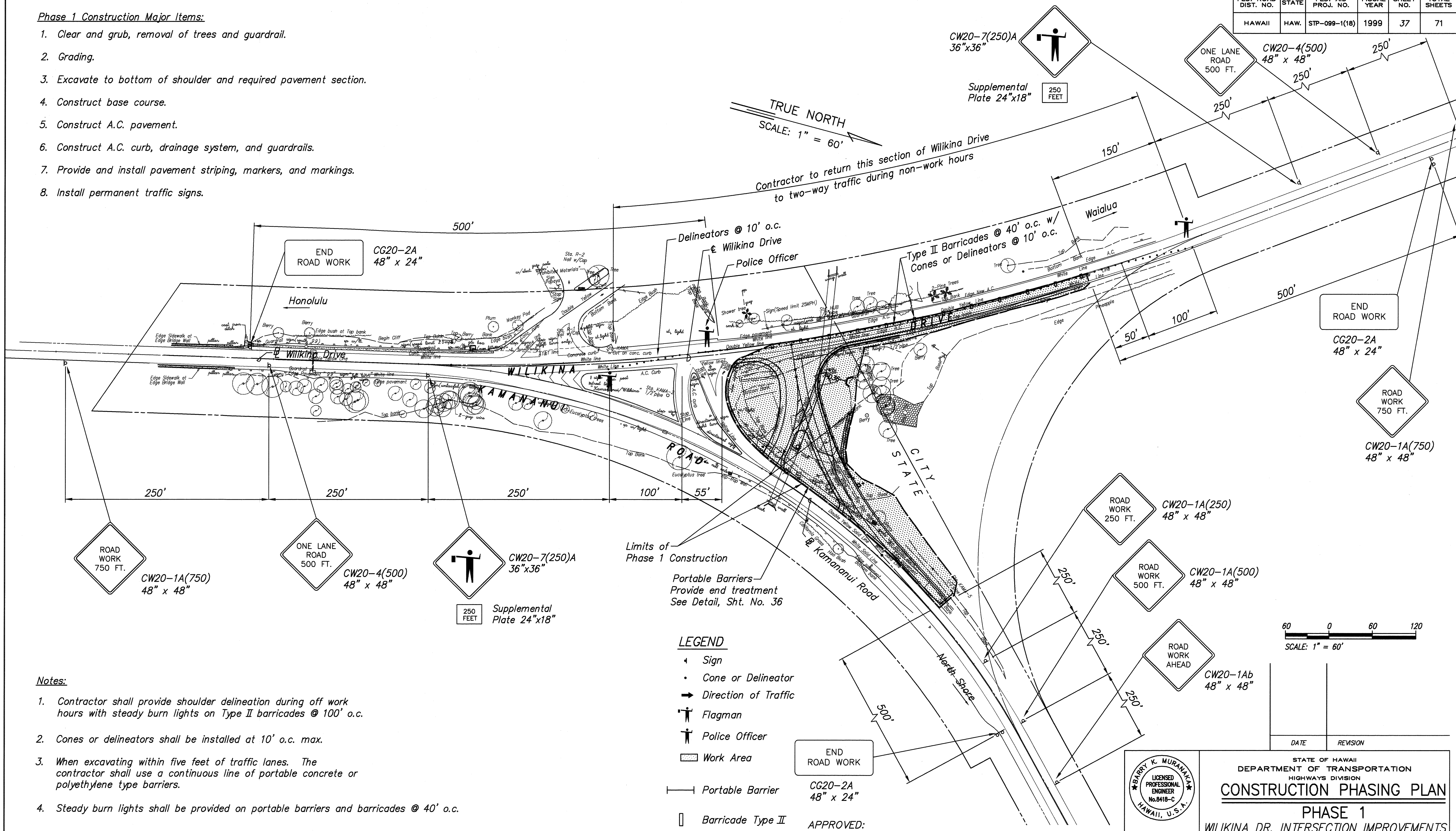
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OPER: RMK, RGO, CKY, KKF, BKM, *MSM
REVISED: 06/02/99
FILE: DOT95234
SCALE: 1" = 1'
BEG: 03/06/97

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

Phase 1 Construction Major Items:

1. Clear and grub, removal of trees and guardrail.
2. Grading.
3. Excavate to bottom of shoulder and required pavement section.
4. Construct base course.
5. Construct A.C. pavement.
6. Construct A.C. curb, drainage system, and guardrails.
7. Provide and install pavement striping, markers, and markings.
8. Install permanent traffic signs.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-099-1(18)	1999	37	71



Notes:

1. Contractor shall provide shoulder delineation during off work hours with steady burn lights on Type II barricades @ 100' o.c.
2. Cones or delineators shall be installed at 10' o.c. max.
3. When excavating within five feet of traffic lanes. The contractor shall use a continuous line of portable concrete or polyethylene type barriers.
4. Steady burn lights shall be provided on portable barriers and barricades @ 40' o.c.
5. All temporary striping and pavement markings shall be tape.
6. Remove all existing signs in the work area unless otherwise noted.
7. Payment for Traffic Control shall be incidental to the various contract items.

CONSTRUCTION PHASING PLAN (PHASE 1)

Scale: 1" = 60'

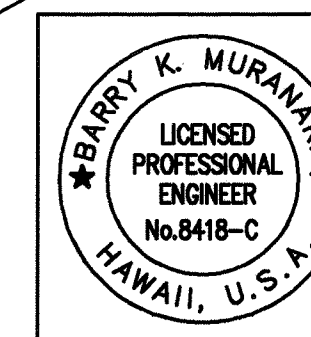
END
ROAD WORK
CG20-2A
48" x 24"

APPROVED:

Chief, Traffic Review Branch, D.P.P.

6/14/99

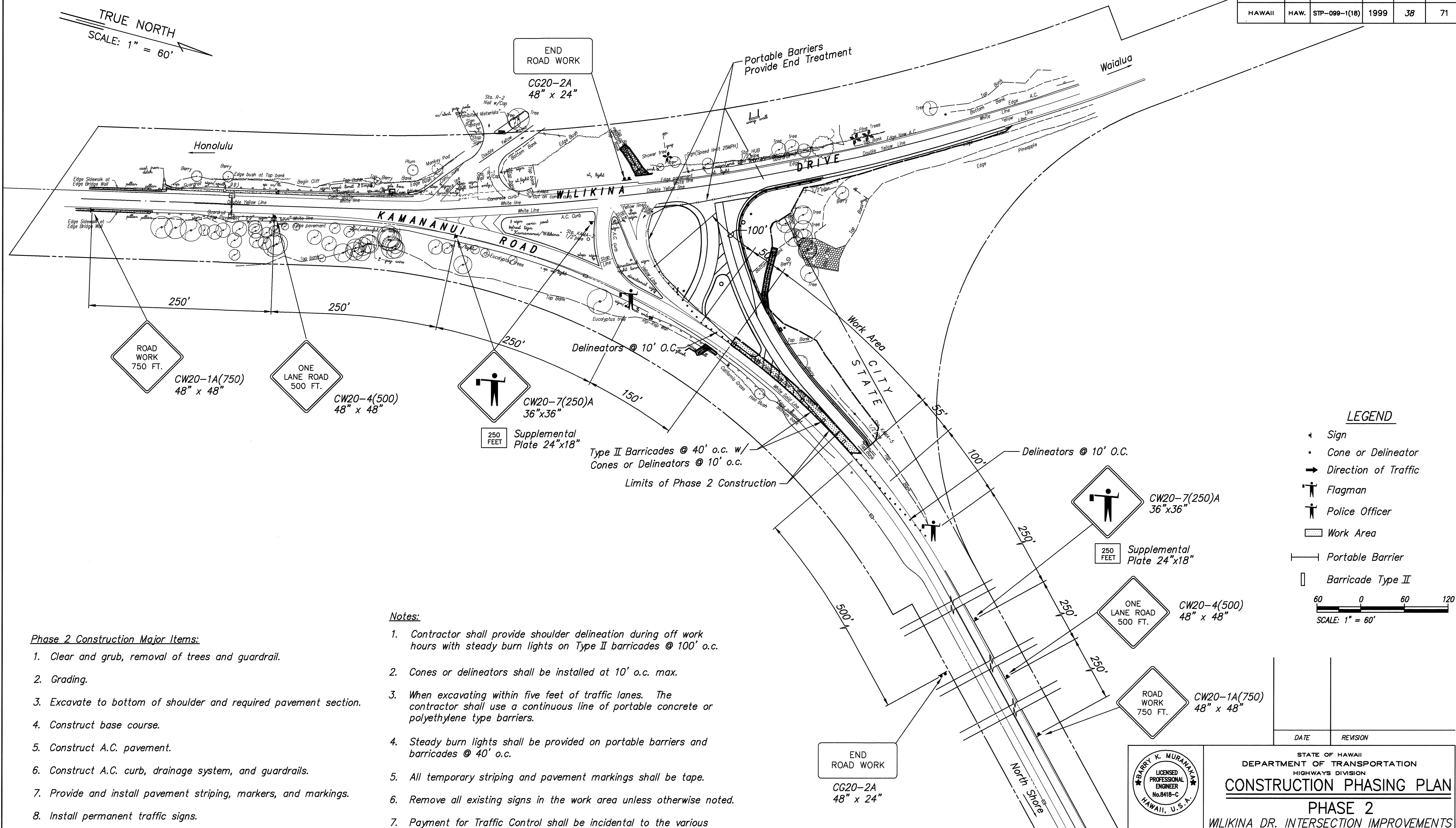
Date








STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
CONSTRUCTION PHASING PLAN
PHASE 1
WILIKINA DR. INTERSECTION IMPROVEMENTS
AT KAMANANUI ROAD
Federal Aid Project No. STP-099-1(18)
Scale: As shown Date: June 1999
SHEET NO. 2 OF 7 SHEETS

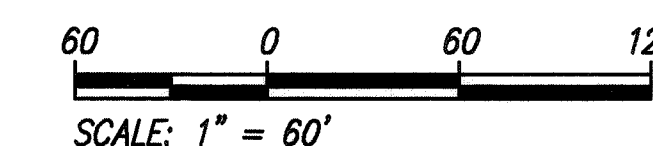
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-099-1(18)	1999	38	71

TRUE NORTH
SCALE: 1" = 60'



LEGEND

- *Sign*
- *Cone or Delineator*
- ➔ *Direction of Traffic*
-  *Flagman*
-  *Police Officer*
-  *Work Area*
-  *Portable Barrier*
-  *Barricade Type II*



Notes:

1. Contractor shall provide shoulder delineation during off work hours with steady burn lights on Type II barricades @ 100' o.c.
2. Cones or delineators shall be installed at 10' o.c. max.
3. When excavating within five feet of traffic lanes. The contractor shall use a continuous line of portable concrete or polyethylene type barriers.
4. Steady burn lights shall be provided on portable barriers and barricades @ 40' o.c.
5. All temporary striping and pavement markings shall be tape.
6. Remove all existing signs in the work area unless otherwise noted.
7. Payment for Traffic Control shall be incidental to the various contract items.

Phase 2 Construction Major Items:

1. *Clear and grub, removal of trees and guardrail.*
2. *Grading.*
3. *Excavate to bottom of shoulder and required pavement section.*
4. *Construct base course.*
5. *Construct A.C. pavement.*
6. *Construct A.C. curb, drainage system, and guardrails.*
7. *Provide and install pavement striping, markers, and markings.*
8. *Install permanent traffic signs.*

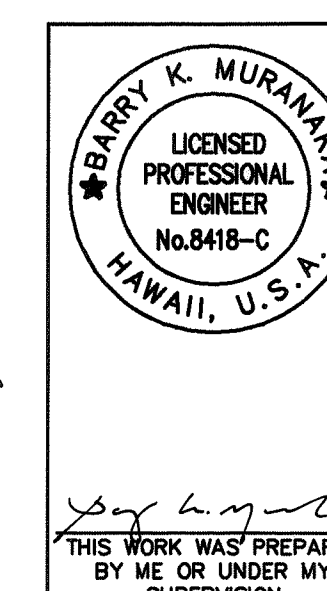
CONSTRUCTION PHASING PLAN (PHASE 2)

Scale: 1" = 60'

APPROVED:

[Signature]
Chief, Traffic Review Branch, D.P.P. *cm*

6/16/99



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CONSTRUCTION PHASING PLAN

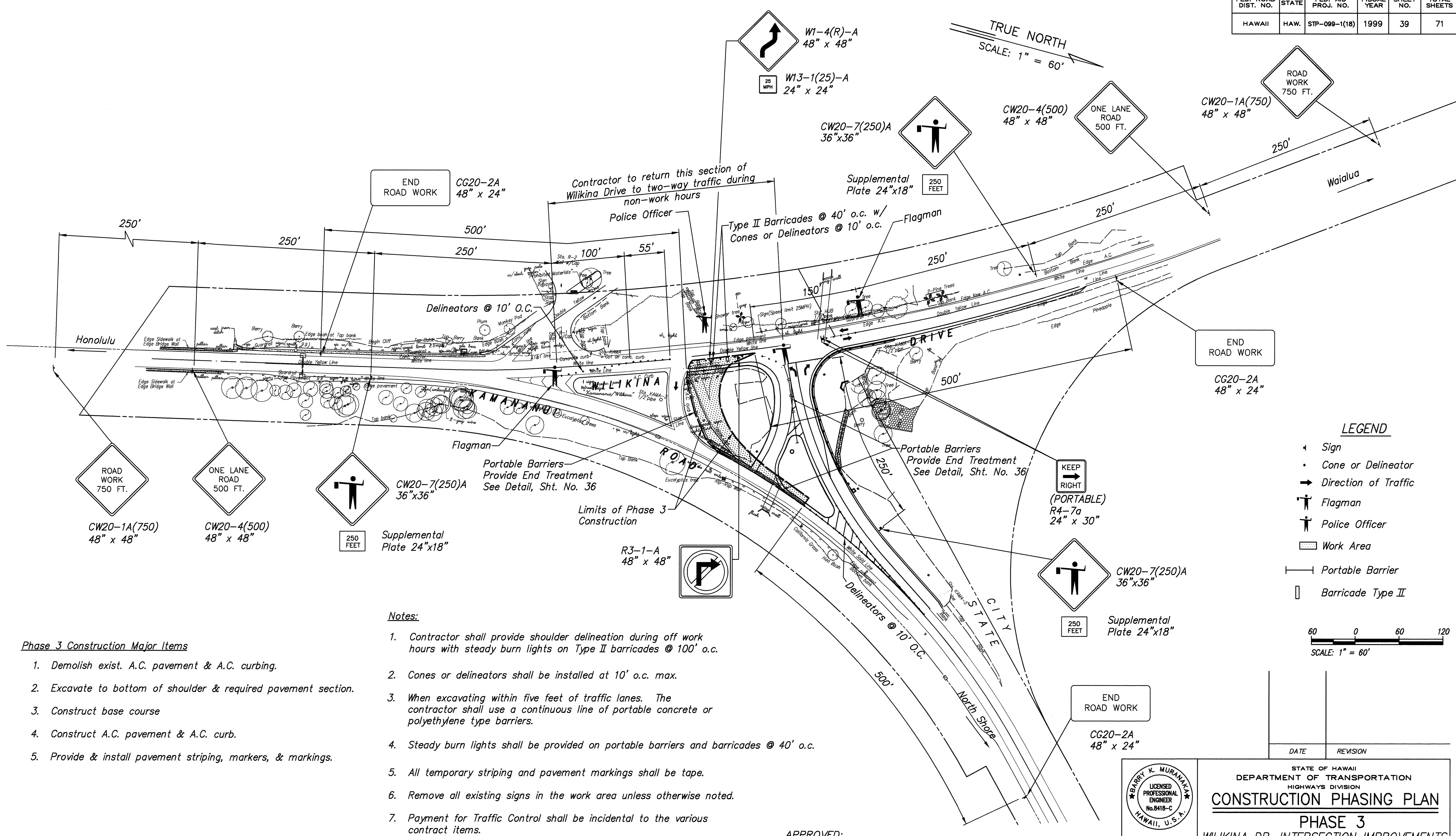
PHASE 2

WILIKINA DR. INTERSECTION IMPROVEMENTS
AT KAMANANUI ROAD
Federal Aid Project No. STP-099-1(18)

Scale: As shown Date: June 1999

SHEET NO. 3 OF 7 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-099-1(18)	1999	39	71



PM: BKM
OPR: SAI, CKY, BKM, RGO, RMK, MSM
REVISED: 06/03/99
FILE: DOT95230
SCALE: 1"=60'
BEG: 8/4/97

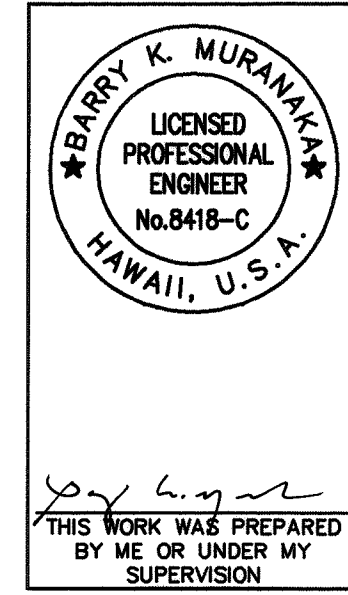
SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NO.	

- Phase 3 Construction Major Items**
1. Demolish exist. A.C. pavement & A.C. curbing.
 2. Excavate to bottom of shoulder & required pavement section.
 3. Construct base course
 4. Construct A.C. pavement & A.C. curb.
 5. Provide & install pavement striping, markers, & markings.

- Notes:**
1. Contractor shall provide shoulder delineation during off work hours with steady burn lights on Type II barricades @ 100' o.c.
 2. Cones or delineators shall be installed at 10' o.c. max.
 3. When excavating within five feet of traffic lanes. The contractor shall use a continuous line of portable concrete or polyethylene type barriers.
 4. Steady burn lights shall be provided on portable barriers and barricades @ 40' o.c.
 5. All temporary striping and pavement markings shall be tape.
 6. Remove all existing signs in the work area unless otherwise noted.
 7. Payment for Traffic Control shall be incidental to the various contract items.

CONSTRUCTION PHASING PLAN (PHASE 3)
Scale: 1" = 60'

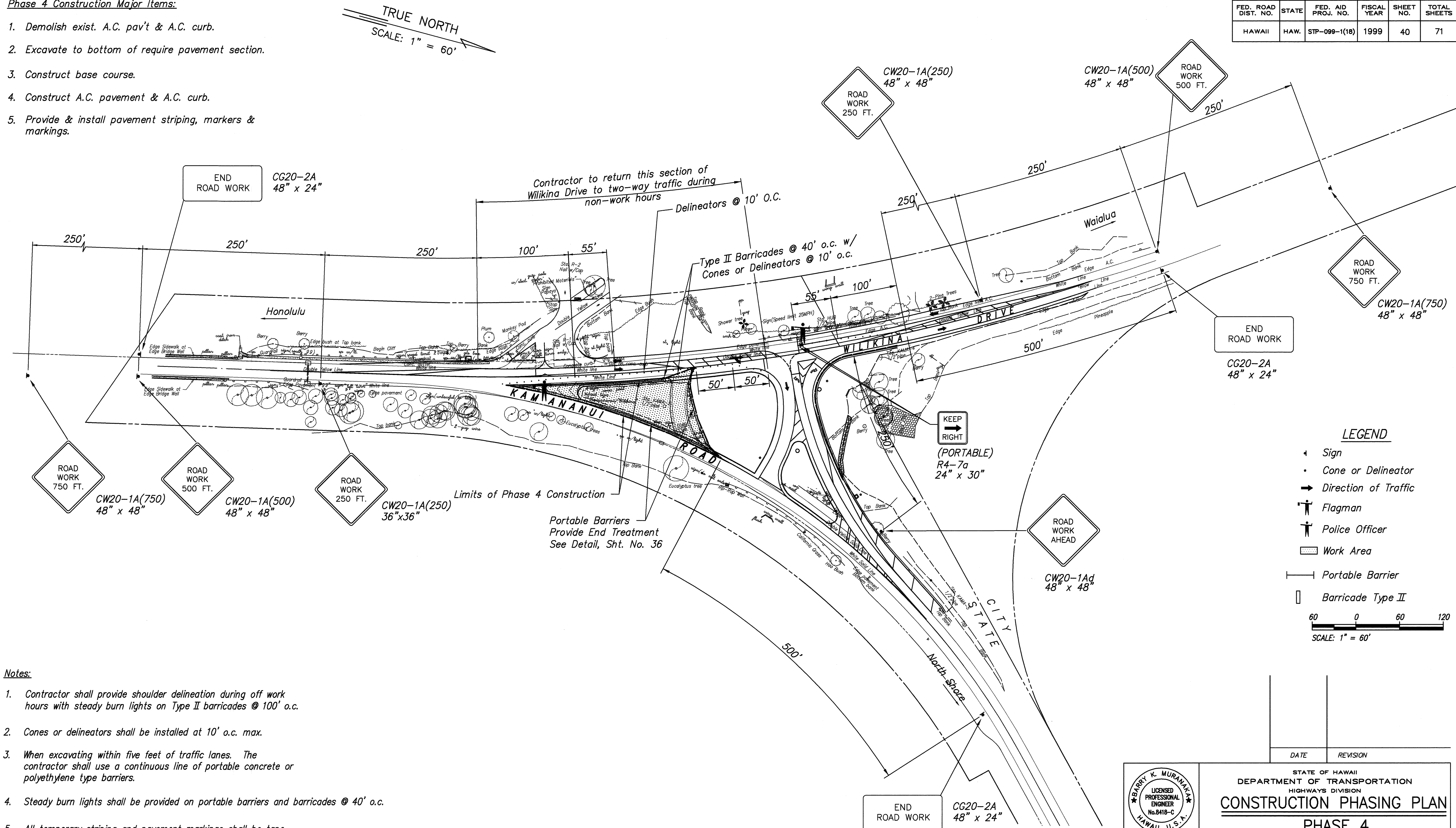
APPROVED:
[Signature]
Chief, Traffic Review Branch, D.P.P. *rw* 6/16/99
Date



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
CONSTRUCTION PHASING PLAN
PHASE 3
WILIKINA DR. INTERSECTION IMPROVEMENTS
AT KAMANUI ROAD
Federal Aid Project No. STP-099-1(18)
Scale: As shown Date: June 1999
SHEET NO. 4 OF 7 SHEETS

1. Demolish exist. A.C. pav't & A.C. curb.
2. Excavate to bottom of require pavement section.
3. Construct base course.
4. Construct A.C. pavement & A.C. curb.
5. Provide & install pavement striping, markers & markings.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-099-1(18)	1999	40	71



1. Contractor shall provide delineation during off work hours with steady burn lights on Type II barricades @ 100' o.c.
2. Cones or delineators shall be installed at 10' o.c. max.
3. When excavating within five feet of traffic lanes. The contractor shall use a continuous line of portable concrete or polyethylene type barriers.
4. Steady burn lights shall be provided on portable barriers and barricades @ 40' o.c.
5. All temporary striping and pavement markings shall be tape.
6. Remove all existing signs in the work area unless otherwise noted.
7. Payment for Traffic Control shall be incidental to the various contract items.

CONSTRUCTION PHASING PLAN (PHASE 4)

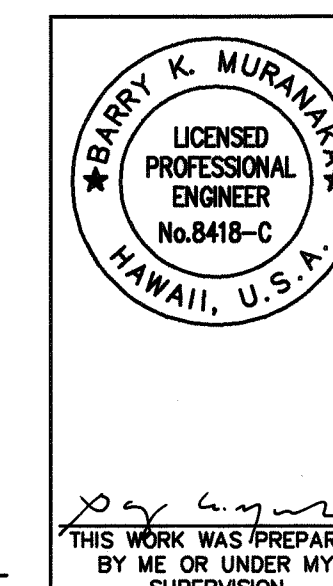
Scale: 1" = 60'

APPROVED:

Chief, Traffic Review Branch, D.P.P. *now*

6/16/99

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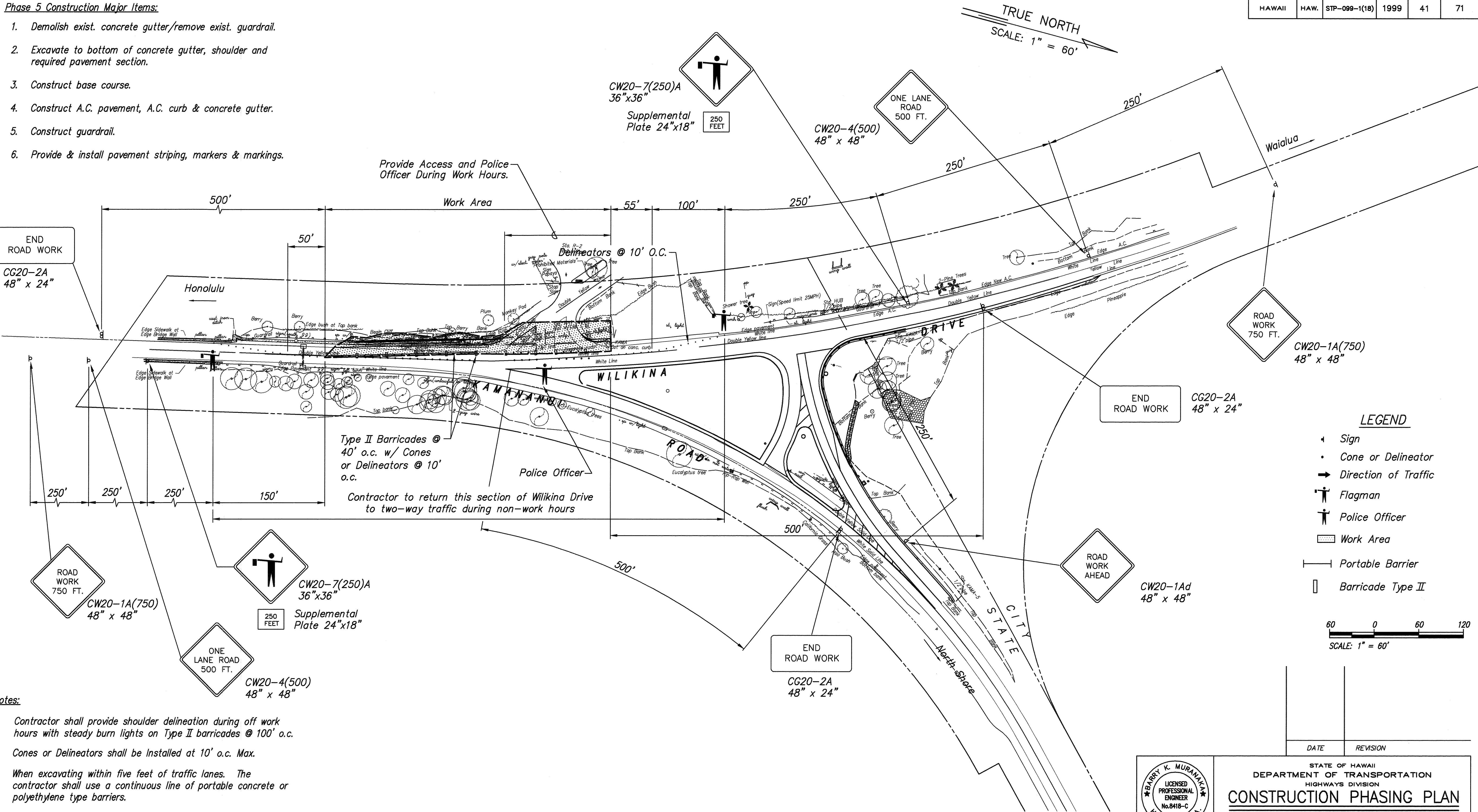


STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
CONSTRUCTION PHASING PLAN
PHASE 4
*WILIKINA DR. INTERSECTION IMPROVEMENTS
AT KAMANANUI ROAD
Federal Aid Project No. STP-099-1(18)*
Scale: As shown Date: June 1999
SHEET NO. 5 OF 7 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-099-1(18)	1999	41	71

Phase 5 Construction Major Items:

1. Demolish exist. concrete gutter/remove exist. guardrail.
2. Excavate to bottom of concrete gutter, shoulder and required pavement section.
3. Construct base course.
4. Construct A.C. pavement, A.C. curb & concrete gutter.
5. Construct guardrail.
6. Provide & install pavement striping, markers & markings.



Notes:

1. Contractor shall provide shoulder delineation during off work hours with steady burn lights on Type II barricades @ 100' o.c.
2. Cones or Delineators shall be Installed at 10' o.c. Max.
3. When excavating within five feet of traffic lanes. The contractor shall use a continuous line of portable concrete or polyethylene type barriers.
4. Steady burn lights shall be provided on portable barriers and barricades @ 40' o.c.
5. All temporary striping and pavement markings shall be tape.
6. Remove all existing signs in the work area unless otherwise noted.
7. Payment for Traffic Control shall be incidental to the various contract items.

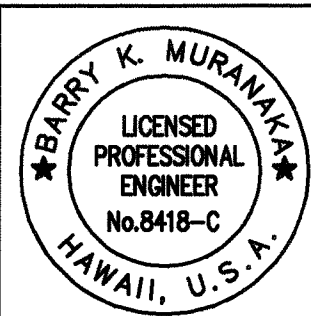
CONSTRUCTION PHASING PLAN (PHASE 5)

Scale: 1" = 60'

APPROVED:

Chief, Traffic Review Branch, D.P.P.

Date



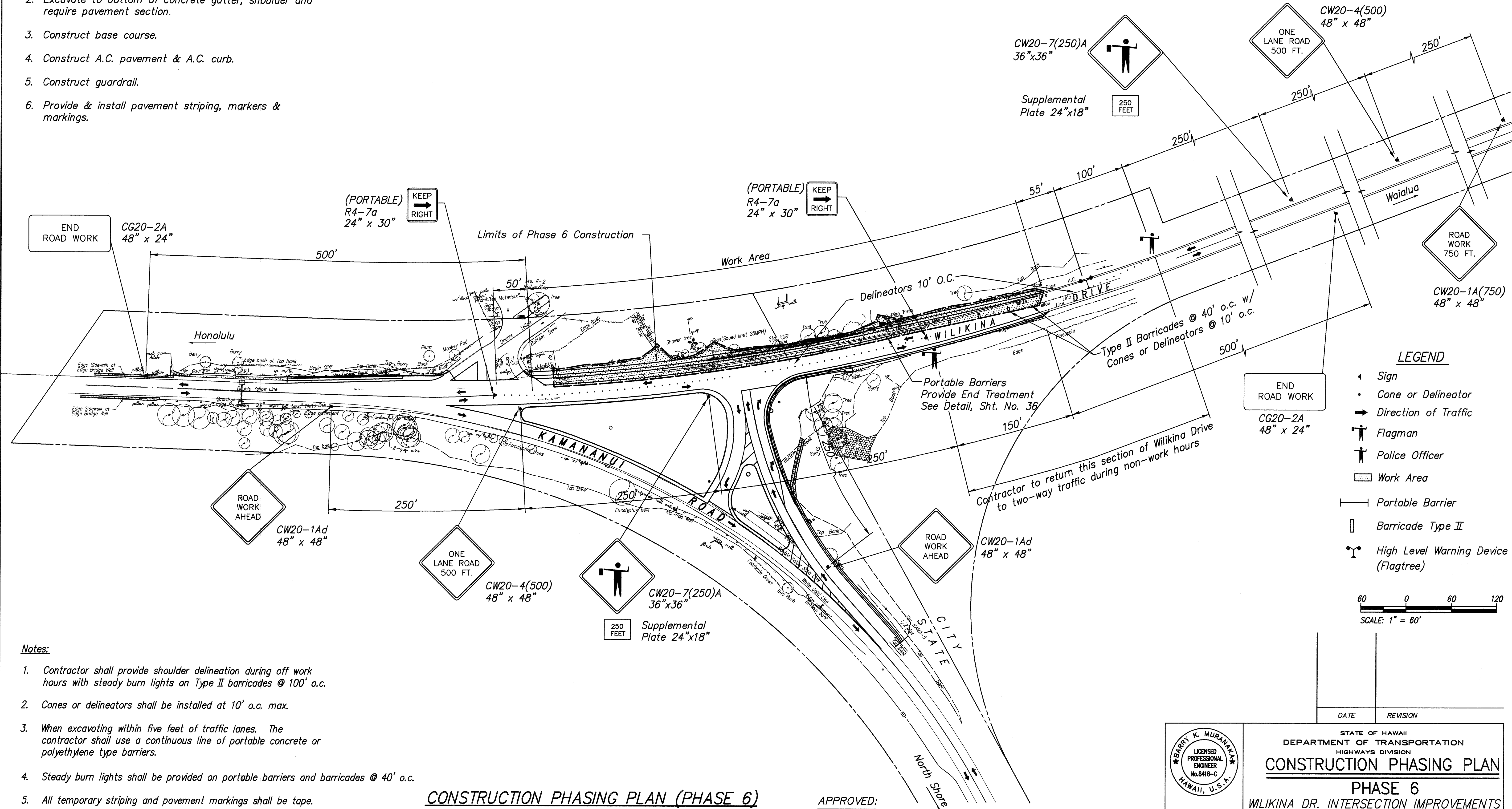
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
CONSTRUCTION PHASING PLAN
PHASE 5
WILIKINA DR. INTERSECTION IMPROVEMENTS
AT KAMANANUI ROAD
Federal Aid Project No. STP-099-1(18)
Scale: As shown Date: June 1999
SHEET NO. 6 OF 7 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-099-1(18)	1999	42	71

Phase 6 Construction Major Items:

1. Remove exist. guardrail.
2. Excavate to bottom of concrete gutter, shoulder and require pavement section.
3. Construct base course.
4. Construct A.C. pavement & A.C. curb.
5. Construct guardrail.
6. Provide & install pavement striping, markers & markings.

TRUE NORTH
SCALE: 1" = 60'



Notes:

1. Contractor shall provide shoulder delineation during off work hours with steady burn lights on Type II barricades @ 100' o.c.
2. Cones or delineators shall be installed at 10' o.c. max.
3. When excavating within five feet of traffic lanes. The contractor shall use a continuous line of portable concrete or polyethylene type barriers.
4. Steady burn lights shall be provided on portable barriers and barricades @ 40' o.c.
5. All temporary striping and pavement markings shall be tape.
6. Remove all existing signs in the work area unless otherwise noted.
7. Payment for Traffic Control shall be incidental to the various contract items.

CONSTRUCTION PHASING PLAN (PHASE 6)

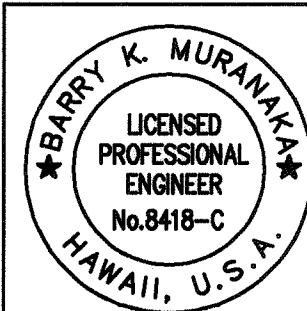
Scale: 1" = 60'

APPROVED:

Chief, Traffic Review Branch, D.P.P.

Date

DATE REVISION



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
CONSTRUCTION PHASING PLAN

PHASE 6
WILIKINA DR. INTERSECTION IMPROVEMENTS
AT KAMANANUI ROAD
Federal Aid Project No. STP-099-1(18)

Scale: As shown Date: June 1999
SHEET NO. 7 OF 7 SHEETS