FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	121	557

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 Line 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)

② 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)

STOP 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)

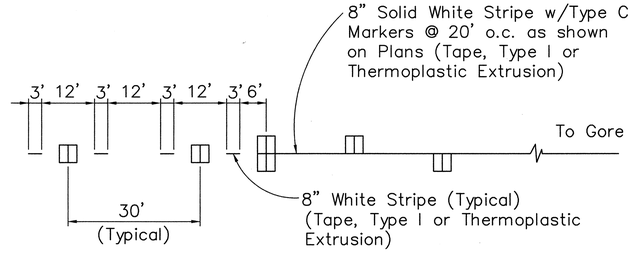
10'10'10'10' Extension of Edge Line, 4" Wide x 2'-0" Long White Stripe @ 10'-0" o.c. w/Type C Markers @ 40'-0" o.c. (Tape, Type III or Thermoplastic Extrusion)

KEY TO PAVEMENT MARKING AND SIGNING PLAN:

1. Existing Sign(s) to Remain
2. Existing Sign(s) with Post(s) to be Removed
3. Existing Sign(s) with Post(s) to be Removed; Replace with New Sign(s) with Post(s)
4. New Sign(s) with Post(s) to be Installed
5. Existing Sign(s) to be Removed; Install New Sign(s) on Existing Light Standards
6. Existing Sign(s) to be Removed; Install New Sign(s) on Existing Traffic Signal Post
7. Existing Sign(s) to be Removed; Install New Sign(s) on Existing Sign Bridge Post
8. Existing Sign(s) to be Removed; Install New Sign(s) on Existing Posts
9. New Overlays with Messages to be Installed over Existing Sign Panels
10. Existing Sign(s) to be Removed; Installed New Sign(s) Mounted on Wall
11. Existing Sign(s) to be Removed; Install New Sign(s) on Bridge Column
12. Existing Sign(s) to be Removed; Install New Sign(s) Mounted on Viaduct (Bridge) Fascia
13. Existing Sign(s) to be Removed; Install New Sign(s) on Bridge Railing
14. Existing Sign(s) to be Removed; Install New Sign(s) on Telephone Pole
15. Existing Sign(s) to be Removed; Install New Sign(s) on Fence
16. Install New Sign(s) on Fence
17. Remove Existing Sign(s); Install New Sign(s) on New Traffic Signal Standards or Push Button Pedestals

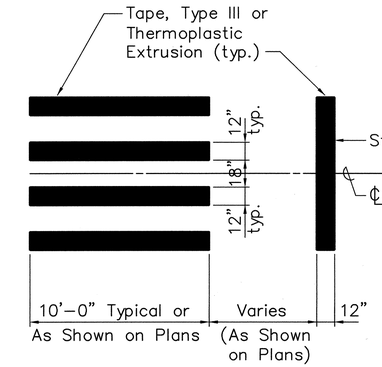
REFLECTOR MARKER LEGEND:

- F(W) Reflector Marker RM-2 (White) w/ Flexible Delineator Post
- F(Y) Reflector Marker RM-2 (Yellow) w/ Flexible Delineator Post
- S(W) Reflector Marker RM-2 (White) w/ Steel Post
- S(Y) Reflector Marker RM-2 (Yellow) w/ Steel Post
- B(Y) Reflector Marker RM-2 (Yellow) w/ Mtg. Bracket on Concrete Barrier
- F Reflector Marker RM-3 (Yellow) w/ Flexible Post
- S Reflector Marker RM-3 (Yellow) w/ Steel Post
- S Reflector Marker RM-4 (L or R) w/ Steel Post
- Reflector Marker RM-4 (L or R) w/o Steel Post Column Mtd. or Wall Mtd.
- ◇S Reflector Marker RM-9 Mounted on Existing Steel Post or New Steel Post



LANE DROP MARKING

Not to Scale



CROSSWALK STRIPING DETAIL

Not to Scale

BST
SHA,FAI,*BTY
PM:
OPER:
REVISED: 07/07/99

DATE: 03/19/99
SCALE: 1 = 1
FILE: 9815-192

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

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKING LEGEND, DETAILS & NOTES

INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I. Project No. IM-H1-1(234)

Scale: As Shown Date: June 1, 1999

SHEET NO. M1 OF 35 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	122	557

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 signs shall be approved by the Engineer prior to any installation work
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 approved 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 an approved primer as recommended by the tape manufacturer and as approved by the Engineer. The primer shall be allowed to dry to the tacky stage prior to tape application.
9. Removal of Existing Delineators and Posts as directed by the Engineer shall be considered incidental to the various signing items.
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. Curb marking shall include top and front of curb.
12. Backing for all new Regulatory and Warning Signs shall not be spliced.
13. All sign panels shall conform to Section 621 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"
14. Border, messages, arrows, symbols and shields shall conform to details as shown on the plans and as specified in the MUTCD.
15. Sign messages shall be as indicated on the plan.
16. All panels shall be reflectorized in accordance with Section 712.20 of the Standard Specifications. Minimum width of panels shall be 2 feet, abutting edges of panels shall be in only one direction if vertical abutting edges are used, no horizontal abutting
17. All new and relocated signs and markers installed on pipe posts, light standard of expressway sign post are to be mounted with band brackets and steel braces.
18. All new signs installed on structure abutment, are to be mounted with 3/8"expansion bolt and washer. Existing holes shall be plugged with mortar as required.
19. Final location of all sign post installed within the sidewalk areas shall have a minimum clearance of 36 inches from sidewalk edge.
20. Removing existing signs and reinstalling on new post shall not be paid for separately, but shall be considered incidental to the various signing items.
21. Supplemental plates used in conjunction with regulatory and warning signs shall not be paid for separately, but shall be considered incidental to the regulatory and warning sign.
22. The Contractor shall install construction signs as noted on the plans. At the project completion, these signs and posts shall become the property of the State. The Contractor shall remove and deliver these signs and posts to a location as directed by the Engineer. The contract price shall be full compensation for all excavation and backfilling, for furnishing, installing, removing and delivering all equipment, tools, labor and incidentals necessary to complete the work.
23. Sign posts shall be squared tube posts unless otherwise shown on these plans or as directed by the engineer.
24. The Contractor shall notify the Oahu Transit Services Inc. (OTS), Ed Sniffen, at 848-4571 or Lowell Tom at 848-4578 two weeks prior to beginning any work, informing them of location, scope of work, proposed closure of any street or traffic lanes, and the need to relocate any bus stop.
25. The Contractor shall install new Type II Object Marker on all utility poles that are within the State Highway Right-of-Way as directed by the Engineer. (65 Each)

PM: BST
OPER: SHA*FAI
REVISED: 05/09/99

DATE: 03/19/99
SCALE: 1 = 1
FILE: 9815-193

	DATE
SURVEY PLOTTED BY	
DRAWN BY	
TRACED BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

ORIGINAL PLAN | NOTEBOOK | No.

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKING
LEGEND, DETAILS & NOTES

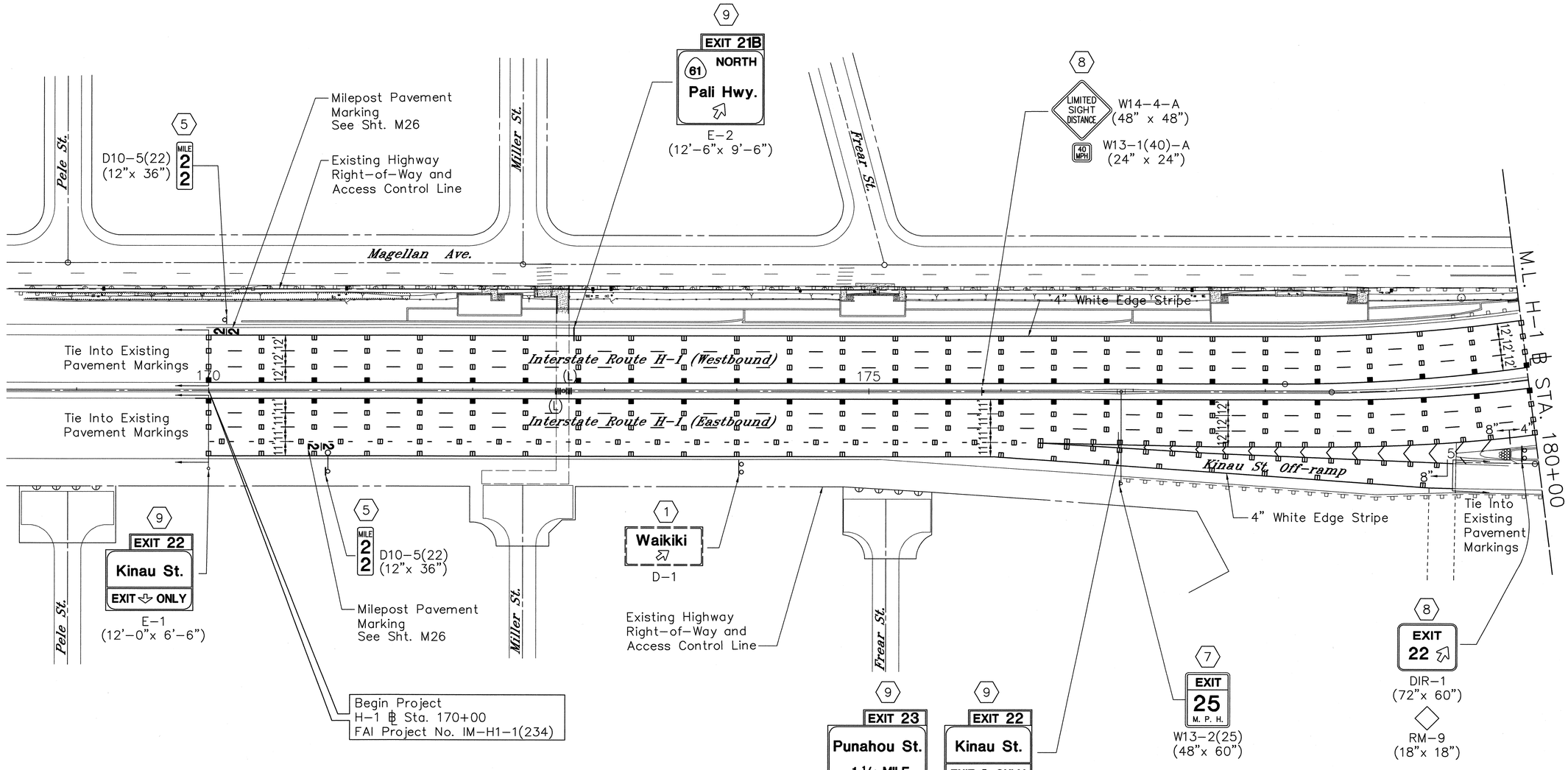
INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I. Project No. IM-H1-1(234)

Scale: As Shown Date: June 1, 1999

SHEET NO. M2 OF 35 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	123	557

TRUE NORTH
SCALE: 1" = 40'



ROTATED: 73° 11' 04" AT 0,0
DATE: 6/16/98
SCALE: 1 = 40
FILE: 9815-37
PM: BST
OPER: SHA CDK *FAI
REVISED: 05/09/99

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

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKING AND SIGNING PLAN

INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I. Project No. IM-H1-1(234)

Scale: 1"=40' Date: June 1, 1999

SHEET NO. M3 OF 35 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	124	557

TRUE NORTH
SCALE: 1" = 40'

9
Pali Hwy. 1/4
School St. 3/4
Palama St. 1 1/2
E-4
(16'-0"x 7'-6")

1
EXIT
30
M. P. H.
W13-2(30)

Alapai St.

Existing Highway Right-of-Way and Access Control Line

Emerson St.

4" White Edge Stripe with Type "C" Raised Pavement Markers @ 40' O.C.

M.L. H-1 STA. 180+00

Capt. Cooke Ave.

12' 12' 12'

Vineyard Boulevard Off Ramp

Tie Into Existing Pavement Markings

4" 8"

M.L. H-1 STA. 190+00

12' 12' 12' 12' 12'

Kinau St. Off Ramp

Interstate Route H-1 (Westbound)

185

Interstate Route H-1 (Eastbound)

Vineyard Boulevard On Ramp

Kinalau Pl.

4" White Edge Stripe with Type "C" Raised Pavement Markers @ 40' O.C.

3
H D9-2
(24"x 24")
IM6-3
(21"x 15")

8
EMERGENCY CALL BOX
30"x 12" (2 EA.)
30"x 36" (2 EA.)

5
SPEED LIMIT 50 MINIMUM 40
R2-4a(50/40)-A
(48"x 96")

8
EXIT 22
DIR-2
(72"x 60")
RM-9
(18"x 18")

ROTATED: 40° 35' 34".08" AT 0,0
DATE: 6/16/98
SCALE: 1" = 40'
FILE: 9815-38
PM: BST
OPER: SHA,CDK,*FAI
REVISED: 05/09/99

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

BENJAMIN S. TANAKA
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No. 2055-C
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKING AND SIGNING PLAN

INTERSTATE ROUTE H-1 RESURFACING

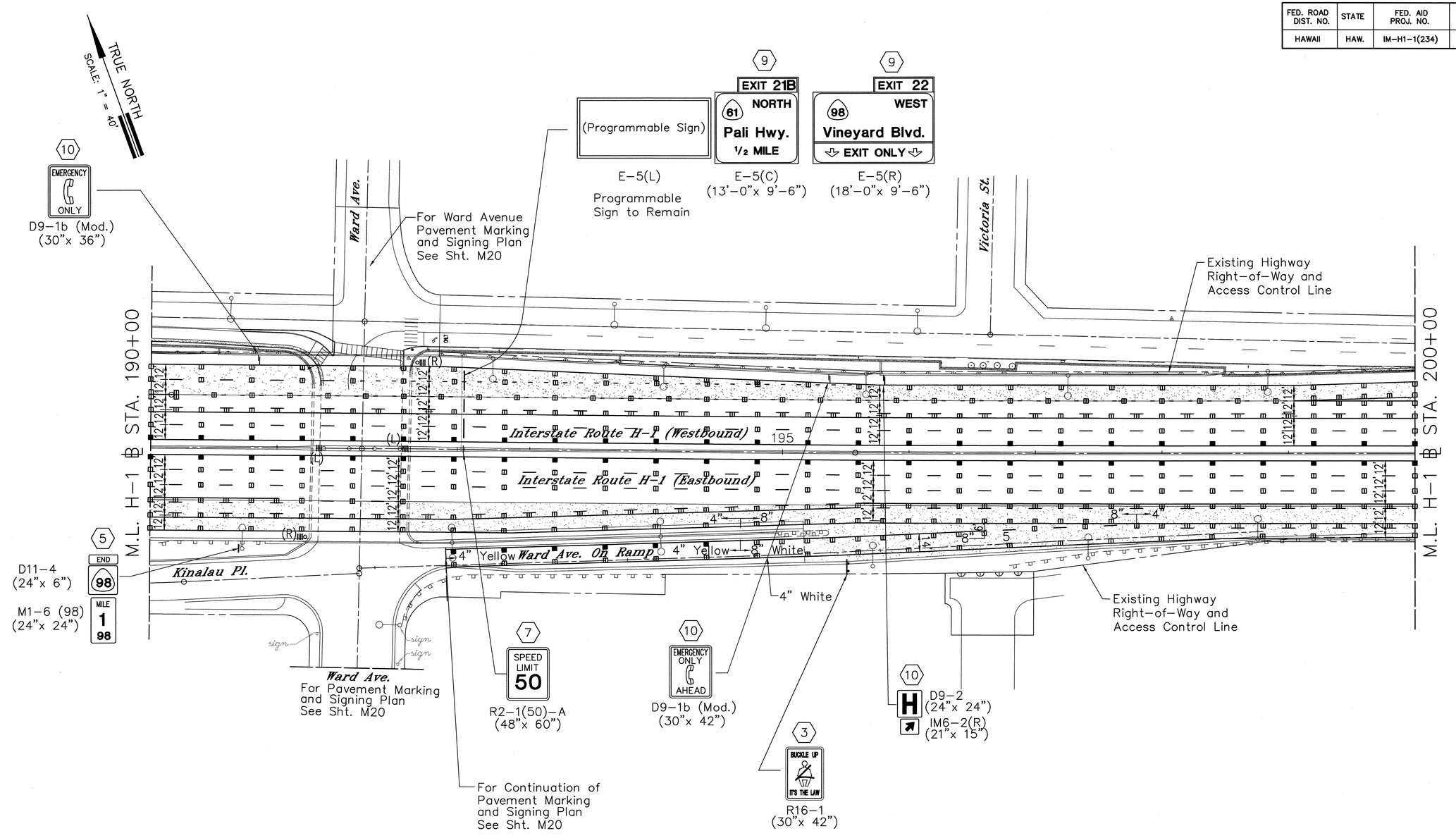
Vic. of Punchbowl Off Ramp to Kapiolani IC

F.A.I. Project No. IM-H1-1(234)

Scale: 1"=40' Date: June 1, 1999

SHEET NO. M4 OF 35 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	125	557



ROTATED: 20° 00' 0.08" AT 0,0
DATE: 6/17/98
SCALE: 1 = 40
FILE: 9815-39
PM:
OPER:
REVISED: 05/09/99
BST
SHA *FAI

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

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKING AND SIGNING PLAN

INTERSTATE ROUTE H-1 RESURFACING

Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

Scale: 1"=40' Date: June 1, 1999

SHEET NO. M5 OF 35 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	126	557

TRUE NORTH
SCALE: 1" = 40'

St. Name Signs
3
1400 ERNEST ST
105 LUNALILO ST

STOP
R1-1
(30"x 30")

ONLY
R3-5(R)
(30"x 36")

ONE WAY
R6-1(L)
(36"x 12")

1
NO PARKING
ANY TIME
R7-1
(12"x 18")

3
W4-3
(36"x 36")

3
R8-3a
(24"x 24")
ANY TIME
R8-3B
(24"x 18")
R7-201a
(12"x 6")

5
The Bus
Bus Information 848-5555
NO STOPPING
R7-107b
(12"x 24")

3
EMERGENCY ONLY
AHEAD
D9-1b (Mod.)
(30"x 42")

UNLICENSED VEHICLES BICYCLES, CYCLES UNDER 5 HP, PEDESTRIANS KEEP OUT FREEWAY
R16-5
(36"x 42")

3
R8-3a
(24"x 24")
R8-3B
(24"x 18")
R7-201a
(12"x 6")

1
H1 WEST
FREEWAY
D-2

1
R9-3a-A
(24"x 24")
2
NO PED XING
1
USE CROSSWALK
R9-3b(R)
(18"x 12")

1
RIGHT LANE MUST TURN RIGHT
R3-7(R)
(30"x 30")

3
1400 PENSACOLA ST
1100 LUNALILO ST
St. Name Signs

ONE WAY
3
R6-1(L)
(36"x 12")

Existing Highway Right-of-Way and

Ernest St.

Tie Into Existing Pavement Markings

8" White — 4" Yellow

Lunalilo Street

45 — 4" Yellow

F(Y) F(Y) F(Y) F(Y) F(Y) F(Y) F(Y) F(Y) F(Y) F(Y) F(Y)

Westbound Lanes

205

Eastbound Lanes

Continue Marking on Viaduct

Pensacola St.

POST OFFICE BUILDING

M.L. H-1 @ STA. 200+00

M.L. H-1 @ STA. 210+00

S(R)

Existing Highway Right-of-Way and Access Control Line

Tie Into Existing Pavement Markings

3
SPEED LIMIT 50 MINIMUM 40
R2-4a(50/40)-A
(48"x 96")

3
WEST
M3-4A
(36"x 18")
H1 IM-1(2)
(36"x 36")
IM6-2(L)
(21"x 15")

ONE WAY
R6-1(R)
(36"x 12")

3
HOSPITAL NEXT EXIT
(30"x 18")

9
Vineyard Blvd. 1/4
Pali Hwy. 3/4
School St. 1 1/4
E-6
(18'-6"x 18'-6")

5
M3-2-A
(36"x 18")
EAST
H1 IM-1(2)
(36"x 36")

3
W11A-2
(36"x 36")
2
PED XING
3
NO LEFT TURN ON RED
R16-3
(18"x 24")

3
R9-3a-4
(24"x 24")
2
NO PED XING
2
3
USE CROSSWALK
R9-3b(L)
(18"x 12")

3
UNLAWFUL TO LITTER $500 FINE
R15-1
(30"x 32")
(On Viaduct)

17
ALA MOANA
D-3
(4'-0"x 2'-0")

ONE WAY
R6-1(R)
(36"x 12")

3
NO LEFT TURN ON RED
R16-3
(18"x 24")

W11A-2
(36"x 36")

11
POST OFFICE | PENSACOLA ONLY | FREEWAY | WARD AVE.
D-4
(6'-0"x 3'-0")

ROTATED: 20° 00' 0.08" AT 0,0
DATE: 6/17/98
SCALE: 1" = 40
FILE: 9815-40
PM: BST
OPER: SHAFAI*BTY
REVISED: 07/07/99

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

BENJAMIN S. TANAKA
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKING AND SIGNING PLAN

INTERSTATE ROUTE H-1 RESURFACING

Vic. of Punchbowl Off Ramp to Kapiolani IC

F.A.I Project No. IM-H1-1(234)

Scale: 1"=40' Date: June 1, 1999

SHEET NO. M6 OF 35 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	127	557

TRUE NORTH
SCALE: 1" = 40'

8 — FREEWAY | WARD AVE. — D-7 (4'-0"x 2'-6")

11 — POST OFFICE | PENSACOLA ONLY | FREEWAY | WARD AVE. — D-6 (6'-0"x 3'-0")

6 — 1200 LUNALILO ST / 1400 PIIKOI ST — St. Names

DO NOT BLOCK INTERSECTION — R10-7 (24"x 30")

NO LEFT TURN ON RED — R16-3 (18"x 24")

6 — R9-3a-A (24"x 24") — USE CROSSWALK — R9-3b(R) (18"x 12")

3 — ONE WAY — R6-1(L) (36"x 12")

NO RIGHT TURN ON RED — R16-4 (18"x 24")

BEGIN CITY AND COUNTY HIGHWAY — 1

1 — SCHOOL — S1-1 (36"x 36")

St. Names — 3 — 1400 LIHOLIHO ST / 1230 LUNALILO ST

STOP — R1-1 (30"x 30")

4 — ONLY — R3-5(R) (30"x 36")

4 — ONE WAY — R6-1(R) (36"X 12")

1 — W4-2(R) (30"x 30")

5 — NO RIGHT TURN ON RED — R16-4 (18"x 24")

3 — R8-3a (24"x 24")

ANY TIME — R8-3B (24"x 18")

R7-201a (12"x 6")

NO PARKING CORNER TO HERE — R7-1 (12"x 18")

Tie Into Existing Pavement Marking

8 — FREEWAY 2nd LANE — D-12 (6'-6"x 3'-0")

3 — R4-7 (24"x 30")

6 — ONE WAY — R6-1(R) (36"x 12")

NO LEFT TURN TURN ON RED — R16-3 (18"x 24")

6 — ONE WAY — R6-1(L) (36"x 12")

SIDEWALK ENDS USE CROSSWALK ACROSS THE STREET — 3

3 — R3-2 (24"x 24")

R9-3a-A (24"x 24")

USE CROSSWALK — R9-3b(L) (18"x 12")

5 — SPEED LIMIT 50 MINIMUM 40 — R2-4a(50/40)-A (48"x 96")

6 — DO NOT BLOCK INTERSECTION — R10-7 24"x 30"

NO LEFT TURN ON RED — R16-3 (18"x 24")

12 — EAST Freeway — D-8(R) (9'-0"x 8'-6")

Post Office Pensacola — D-8(L) (11'-6"x 8'-6")

3 — UNLAWFUL TO LITTER $500 FINE — R15-1 (30"x 32")

3 — NO LEFT TURN ON RED — R16-3 (18"x 24")

STOP HERE ON RED — R10-6 (24"x 36")

4 — SIDEWALK ENDS USE CROSSWALK — R8-3b(R)(Modified) (48"X36")

6 — ONE WAY — R6-1(R) (36'x 12")

3 — 1200 PAPAKU PL / 1400 PIIKOI ST — R3-1 (24"x 24")

St. Names — DEAD END — W14-1 (30"x 30")

1 — ONE WAY — R6-1(R) (36"x12")

5 — ONLY — D-9 (4'-6"x 2'-6")

1 — STOP — R1-1 30"x 30"

1200 MATLOCK ST / 1230 PIIKOI ST

1 — NO PARKING CORNER TO HERE — R7-1 (12"x 18")

ONE WAY — R6-1(R) (36"x 12")

3 — UNLICENSED VEHICLES BYCYCLES, CYCLES UNDER 5 HP PEDESTRIANS KEEP OUT FREEWAY — R16-5 (36"x 42")

1 — EAST WAIKIKI — D-10

3 — St. Names — 1400 PIIKOI ST / 1200 LUNALILO ST

5 — WEST — M3-4-A IM-1(2) (36"x 18") (36"x 36")

6 — R3-1 (24"x 24")

3 — R3-2 (24"x 24")

3 — R8-3a (24"x 24")

ANY TIME — R8-3B (24"x 18")

R7-201a (12"x 6")

11 — POST OFFICE PENSACOLA | FREEWAY | WARD — D-11 (5'-0"x 3'-6")

3 — (On Viaduct) — UNLAWFUL TO LITTER $500 FINE — R15-1 (30"x 32")

3 — R8-3a (24"x 24")

ANY TIME — R8-3B (24"x 18")

R7-201a (12"x 6")

Lunalilo Street — Papaku Place — POST OFFICE BUILDING — Piikoi St. — Liholiho St. — Matlock St.

Tie Into Exist. Pav't. marking

Continue Markings

Continue Marking (on Viaduct)

Westbound Lanes — Eastbound Lanes — Piikoi St. On Ramp

4" White Edge Stripe

4" White — 4" Yellow

M.L. H-1 STA. 210+00 — M.L. H-1 STA. 220+00

ROTATED: 20° 00' 0.08" AT 0,0
DATE: 6/17/98
SCALE: 1 = 40
FILE: 9815-41
PM: BST
OPER: SHA*FAI
REVISED: 05/09/99

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

BENJAMIN S. TANAKA — LICENSED PROFESSIONAL ENGINEER No.2055-C — HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKING AND SIGNING PLAN

INTERSTATE ROUTE H-1 RESURFACING

Vic. of Punchbowl Off Ramp to Kapiolani IC

F.A.I Project No. IM-H1-1(234)

Scale: 1"=40' Date: June 1, 1999

SHEET NO. M7 OF 35 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	128	557

TRUE NORTH
SCALE: 1" = 40'

3 — 1400 KEWALO ST / 1300 LUNALILO ST — St. Names

3 — STOP — R1-1 (30"x 30")

3 — NO PARKING 6:00 A.M. TO 10:00 A.M. TUESDAYS AND FRIDAYS — R7-1 (12"x 18")

3 — R7-201a (12"x 6")

3 — R4-7 (24"x 30")

3 — R8-3a (24"x 24") — ANY TIME — R8-3B (24"x 18") — R7-201a (12"x 6")

3 — W11A-2 (30"x 30") — PED XING — 2

3 — R8-3a (24"x 24") — ANY TIME — R8-3B (24"x 18")

5 — MILE 2 3 — D10-5(23) (12"x 36")

3 — SPEED LIMIT 25 — R2-1(25) (24"x 30")

3 — R8-3a (24"x 24") — ANY TIME — R8-3B (24"x 18") — R7-201a (12"x 6")

3 — DO NOT ENTER — R5-1 (30"x 30") — WRONG WAY — R5-1a (36"x 24")

8 — EXIT 23 — D1R-3 (72"x 60") — RM-9 (18"x 18")

3 — ONE WAY — R6-1(R) (36"x 12")

3 — W1-8(R) (18"x 24")

3 — NO STOPPING OR STANDING — R7-4 (12"x 18")

3 — W1-8(R) (18"x 24")

3 — R8-3a (24"x 24") — ANY TIME — R8-3B (24"x 18") — R7-201a (12"x 6")

7 — EXIT 25 M. P. H. — W13-2(25) (48"x 60")

Kewalo St.

Keeaumoku St.

STA. 220+00

STA. 230+00

M.L. H-1 EB

M.L. H-1 WB

Lunalilo St.

Lunalilo St. Off Ramp

Westbound Lanes

Eastbound Lanes

Piikoi St. on Ramp

4" White Edge Line

4" Yellow

8" White

8" 4" Yellow

4" 8"

4" White Edge Stripe

4 — ONE WAY — R6-1(R) (36"x 12")

4 — R3-2 (24"x 24")

3 — EMERGENCY ONLY AHEAD — D9-1b (mod.) (30"x 42")

3 — W4-3-A (48"x 48")

3 — MILE 2 3 — D10-5(23) (12"x 36")

Milepost Pavement Marking See Sht. M26

Milepost Pavement Marking See Sht. M26

3 — NO STOPPING OR STANDING — R7-4 (12"x 18")

9 — EXIT 23 — Punahou St. — EXIT ONLY — E-7 (15'-0"x 6'-6")

9 — EXIT 22 — (98) WEST — Vineyard Blvd. — 3/4 MILE — E-8(L) (18'-0"x 9'-0")

9 — EXIT 23 — Lunalilo Street — EXIT ONLY — E-8(R) (11'-0"x 9'-6")

ROTATED: 12° 47' 55.1" AT 0,0
DATE: 6/17/98
SCALE: 1 = 40
FILE: 9815-42
PM: BST
OPER: SHA.HC.*FAI
REVISED: 05/09/99

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

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKING AND SIGNING PLAN

INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

Scale: 1"=40' Date: June 1, 1999

SHEET NO. M8 OF 35 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	129	557

TRUE NORTH
SCALE: 1" = 40'

(7) SPEED LIMIT 50 MINIMUM 40
R2-4a(50/40)-A
(48" x 96")

(3) ROAD CLOSED EXIT HERE → WHEN FLASHING
R11-5 (Modified)
(42"x 54")

Makiki St.

(Makiki) existing Sub-Station Bld'g

M.L. H-1M @ STA. 230+00

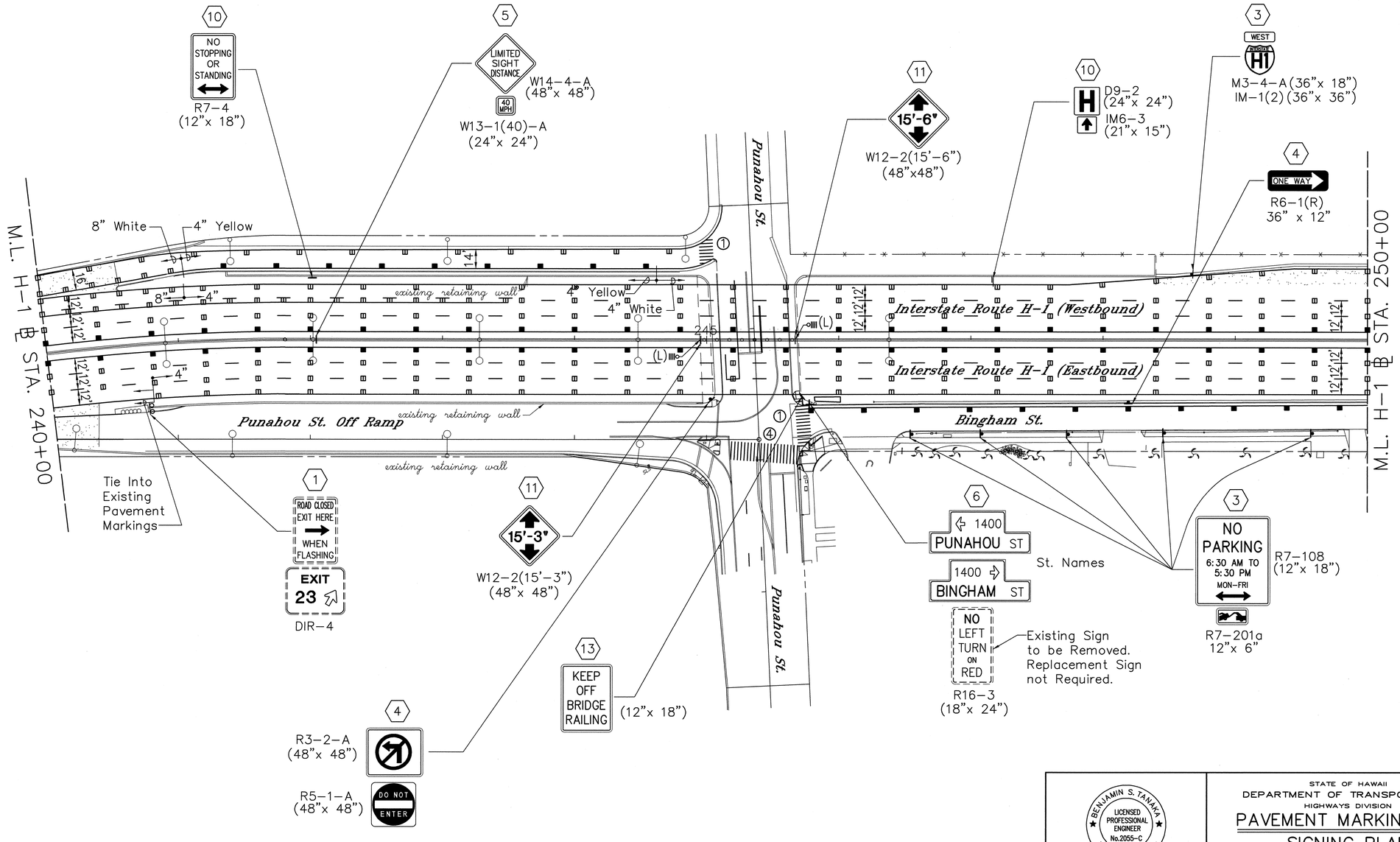
Interstate Route H-1 (Westbound)

Interstate Route H-1 (Eastbound)

12' 12' 12'

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	130	557

TRUE NORTH
SCALE: 1" = 40'



ROTATED: 34° 52' 0.08" AT 0,0
DATE: 6/17/98
SCALE: 1" = 40'
FILE: 9815-44
PM: BST
OPER: FAI
REVISED: 05/12/99

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKING AND SIGNING PLAN

INTERSTATE ROUTE H-1 RESURFACING

Vic. of Punchbowl Off Ramp to Kapiolani IC

F.A.I Project No. IM-H1-1(234)

BENJAMIN S. TANAKA
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No. 2055-C
HAWAII, U.S.A.

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Benjamin S. Tanaka

Scale: 1"=40' Date: June 1, 1999

SHEET NO. M10 OF 35 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	131	557

TRUE NORTH
SCALE: 1" = 40'

M.L. H-1 ℄ STA. 250+00

M.L. H-1 ℄ STA. 260+00

Interstate Route H-1 (Westbound)

Interstate Route H-1 (Eastbound)

Bingham St.

Metcalf St.

Alexander St.

Alexander St.

Artesian St.

Waltner St.

255

0

4"

8"

12"

4" Yellow Stripe

4" White Stripe

12" Stop Bar

3 TURN RIGHT ANY TIME WITH CAUTION R16-1 (24"x 30")

3 1400 ALEXANDER ST / 1800 METCALF ST St. Names

3 STOP R1-1 (30"x 30")

3 DO NOT ENTER R5-1 (30"x 30")

3 R8-3a (24"x 24") / ANY TIME R8-3B (24"x 18") TURN RIGHT ANY TIME WITH CAUTION R16-1 (24"x 30")

3 R8-3a (24"x 24") / ANY TIME R8-3B (24"x 18") R7-201a (12"x 6")

14 R8-3a (24"x 24") / ANY TIME R8-3B (24"x 18")

8 ROAD CLOSED EXIT HERE WHEN FLASHING R11-5 (Modified) (42"x 54")

3 UNLICENSED VEHICLES BICYCLES, CYCLES UNDER 5 HP, PEDESTRIANS KEEP OUT FREEWAY R16-5 (36"x 42")

3 NO STOPPING OR STANDING R7-4 (12"x 18")

3 SPEED LIMIT 50 R2-1(50)-A (48"x 60")

3 NO STOPPING OR STANDING R7-4 (12"x 18")

3 R8-3a (24"x 24") / ANY TIME R8-3B (24"x 18")

3 R8-3a (24"x 24") / ANY TIME R8-3B (24"x 18") R7-201a (12"x 6")

15 ONE WAY R6-1(R) (36"x 12")

3 NO PARKING HERE TO CORNER R7-1 (12"x 18")

15 ONE WAY R6-1(R) (36"x 12")

3 SPEED LIMIT 25 R2-1(25) (24"x 30")

3 SPEED LIMIT 25 R2-1(25) (24"x 30")

3 R8-3a (24"x 24") / ANY TIME R8-3B (24"x 18") R7-201a (12"x 6")

8 HI WEST FREEWAY → D-14 (7'-6"x 4'-0")

15 ONE WAY R6-1(R) (36"x 12")

16 R3-2 (24"x 24")

3 W4-1(R)-A (48"x 48") WRONG WAY R5-1a (36"x 24")

3 1800 BINGHAM ST / 1400 ALEXANDER ST St. Names STOP R1-1 (30"x 30")

15 ONE WAY R6-1(R) (36"x 12")

16 R3-2 (24"x 24")

3 1900 BINGHAM ST / 1400 ARTESIAN ST St. Names STOP R1-1 (30"x 30")

ROTATED: 34° 52' 00.08" AT 0,0
DATE: 6/17/98
SCALE: 1" = 40'
FILE: 9815-45
PM: BST
OPER: SHA,*FAI
REVISED: 05/09/99

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

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKING AND SIGNING PLAN

INTERSTATE ROUTE H-1 RESURFACING

Vic. of Punchbowl Off Ramp to Kapiolani IC

F.A.I Project No. IM-H1-1(234)

Scale: 1"=40' Date: June 1, 1999

SHEET NO. M11 OF 35 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	132	557

TRUE NORTH
SCALE: 1" = 40'

9 EXIT 24A
Bingham St.
E-10
(15'-0"x 7'-0")

3 R8-3a (24"x 24")
ANY TIME
R8-3B (24"x 18")
ONE WAY
R6-1(R) (36"x 12")

3 ONE WAY
R6-1(R) (36"x 12")
R8-3a (24"x 24")
ANY TIME
R8-3B (24"x 18")

3 R8-3a (24"x 24")
ANY TIME
R8-3B (24"x 18")

12 15'-9"
W12-2(15'-9") (48"x 48")

12 15'-3"
W12-2(15'-3") (48"x 48")

ONE WAY 16
R6-1(R) (36"x 12")
16 R3-2 (24"x 24")

5 SPEED LIMIT 50 MINIMUM 40
R2-4a(50/40)-A (48"x 96")

M.L. H-1 @ STA. 260+00

M.L. H-1 @ STA. 270+00

Metcalf St.

McCully St.

Interstate Route H-1 (Westbound)

Interstate Route H-1 (Eastbound)

Bingham St.

Bingham St. Off Ramp

12'|12'|12'

265

(R) (L)

4" | 8"

4" Yellow | 8" White

Rumble Strip

Rumble Strips See Sht. M26 For Details

3 SPEED LIMIT 25
R2-1(25) (24"x 30")

3 SPEED LIMIT 25
R2-1(25) (24"x 30")
R8-3a (24"x 24")
ANY TIME
R8-3B (24"x 18")
R7-201a (12"x 6")

1 ONE WAY
R6-1(R) (36"x 12")
NO PARKING ANY TIME
R7-1 (12"x 18")

1 ONE WAY
R6-1(R) (36"x 12")
1 400 McCULLY ST
2000 BINGHAM ST

3 R8-3a (24"x 24")
ANY TIME
R8-3B (24"x 18")

3 R8-3a (24"x 24")
ANY TIME
R8-3B (24"x 18")

3 R8-3a (24"x 24")
ANY TIME
R8-3B (24"x 18")
R3-1 (24"x 24")
R7-201a (12"x 6")

3 W3-1a (36"x 36")
YIELD 3
R1-2 (36"x 36"x 36")
NO PARKING ANY TIME 1
R7-1 (12"x 18")

3 W3-1a (36"x 36")
3 EXIT 25 M. P. H.
W13-2(25) (48"x 60")

3 R8-3a (24"x 24")
ANY TIME
R8-3B (24"x 18")
R7-201a (12"x 6")

3 R8-3a (24"x 24")
ANY TIME
R8-3B (24"x 18")
3 UNLICENSED VEHICLES BICYCLES, CYCLES UNDER 5 HP, PEDESTRIANS KEEP OUT FREEWAY
R16-5 (36"x 42")

5 STOP
R1-1 (30"x 30")

8 EXIT 24A
DIR-5 (90"x 60")
RM-9 (18"x 18")

ROTATED: 21° 12' 00" AT 0,0
DATE: 6/17/98
SCALE: 1 = 40
FILE: 9815-46
PM: BST
OPER: SHA*FAI
REVISED: 05/12/99

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

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKING AND SIGNING PLAN

INTERSTATE ROUTE H-1 RESURFACING

Vic. of Punchbowl Off Ramp to Kapiolani IC

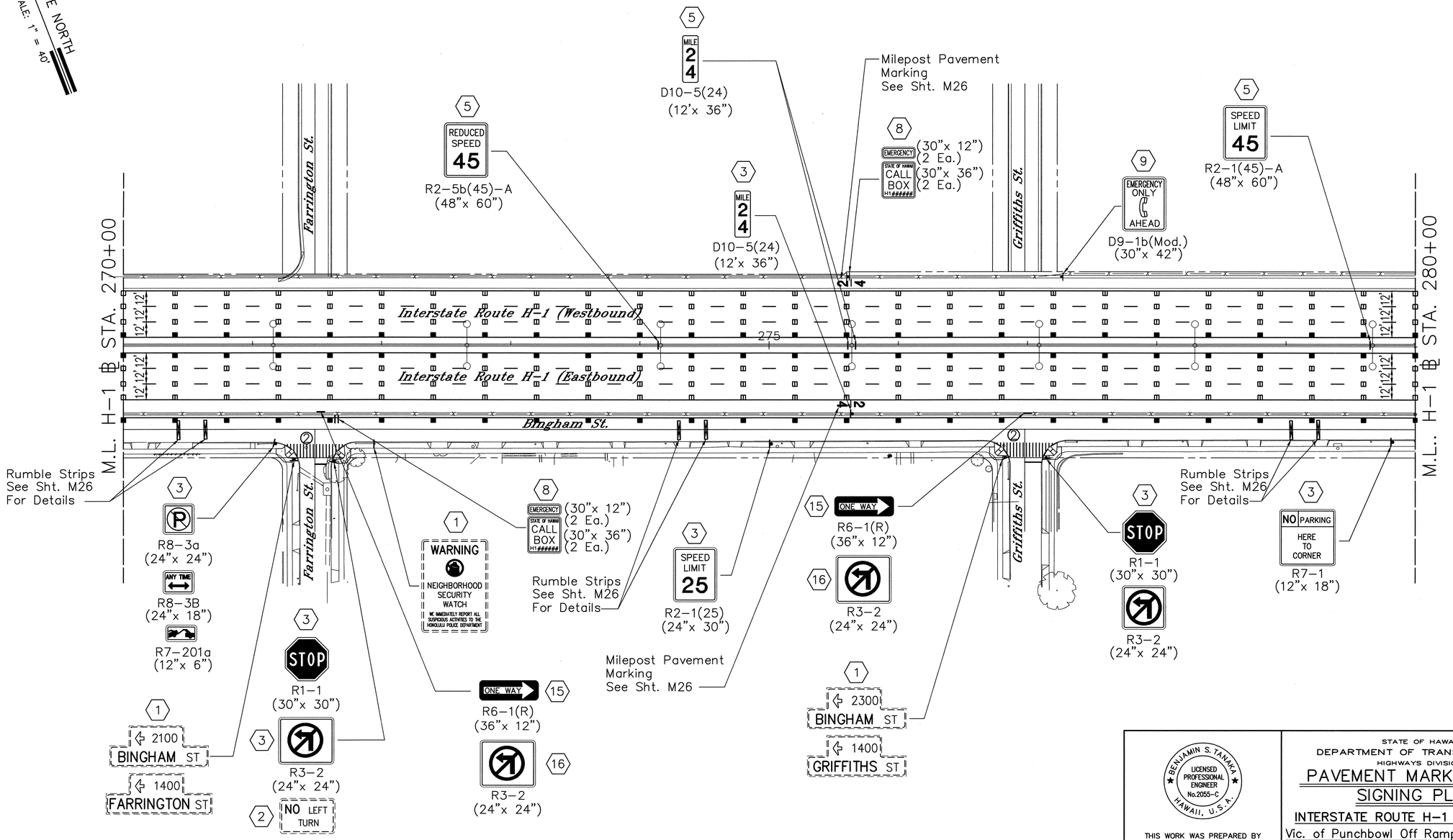
F.A.I Project No. IM-H1-1(234)

Scale: 1"=40' Date: June 1, 1999

SHEET NO. M12 OF 35 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	133	557

TRUE NORTH
SCALE: 1" = 40'



ROTATED: 21° 12' 00" AT 0,0
DATE: 6/17/98
SCALE: 1 = 40
FILE: 9815-47
PM: BST
OPER: SHA,*FAI
REVISED: 05/09/99

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

BENJAMIN S. TANAKA
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKING AND SIGNING PLAN

INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

Scale: 1"=40' Date: June 1, 1999

SHEET NO. M13 OF 35 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	134	557

TRUE NORTH
SCALE: 1" = 40'

UNLICENSED VEHICLES BICYCLES, CYCLES UNDER 5 HP, PEDESTRIANS KEEP OUT FREEWAY
R16-5 (36"x 42")

WRONG WAY
R5-1a (36"x 24")

EXIT (24"x 12")
SPEED LIMIT 25
R2-1(25) (24"x 30")

STOP
R1-1 (30"x 30")

R8-3a (24"x 24")
ANY TIME
R8-3B (24"x 18")

15'-9"
W12-2(15'-9") (48"x 48")

15'-3"
W12-2(15'-3") (48"x 48")

EXIT 25 M. P. H.
W13-2(25)-A (48"x 60")

EXIT 24A
Wilder Ave.
EXIT ONLY
E-12 (14'-0"x 7'-0")

ROAD CLOSED EXIT HERE WHEN FLASHING
R11-5 (Modified) (42"x 54")

WEST
H1
M3-4-A (36"x 18")
IM-1(2) (36"x 36")

ONE WAY
R6-1(R) (36"x 12")

NO STOPPING OR STANDING
R7-4 (12"x 18")

R7-201a (12"x 6")

SI-1 (36"x 36")
SCHOOL
2

Tie Into Existing Pavement Markings

12" Stop Bar

8" White — 4" Yellow

8" White Stripe

Wilder Ave.

Interstate Route H-1 (Westbound)

Interstate Route H-1 (Eastbound)

4" Yellow — 4" White

Bingham St.

M.L. H-1 B STA. 280+00

M.L. H-1 B STA. 10+00

Type "C" Raised Pav't Markers @ 20' O.C.

EXIT 24B
University Ave.
NEXT RIGHT
E-11 (18'-6"X 6'-0")

YIELD
R1-2 (36"x 36"x 36")

DO NOT ENTER
R5-1 (30"x 30")

Isenberg St.

4" Double Yellow Stripe W/ Type "D" RPM'S @ 20'-0" O.C.

NO PARKING CORNER TO HERE
R7-1 (12"x 18")

R8-3a (24"x 24")
ANY TIME
R8-3B (24"x 18")

DO NOT ENTER
R5-1 (30"x 30")

STOP
R1-1 (30"x 30")

2400 BINGHAM ST
1400 ISENBERG ST
St. Names

W6-3 (30"x 30")

STOP (30"x 30")
R1-1

(24"x 24")
R3-2

WRONG WAY
R5-1a (36"x 24")

ONE WAY
R6-1(R) (36"x 12")

ROAD CLOSED EXIT HERE WHEN FLASHING
R11-5 (Modified) (42"x 54")

EXIT 24A
DIR-6 (90"x 60")

RM-9 (18"x 18")

W6-3 (30"x 30")

ROTATED: 30° 21' 59.98" AT 0,0
DATE: 6/17/98
SCALE: 1 = 40
FILE: 9815-48
PM: BST
OPER: SHA,FAI+BTY
REVISED: 07/22/99

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

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKING AND SIGNING PLAN

INTERSTATE ROUTE H-1 RESURFACING

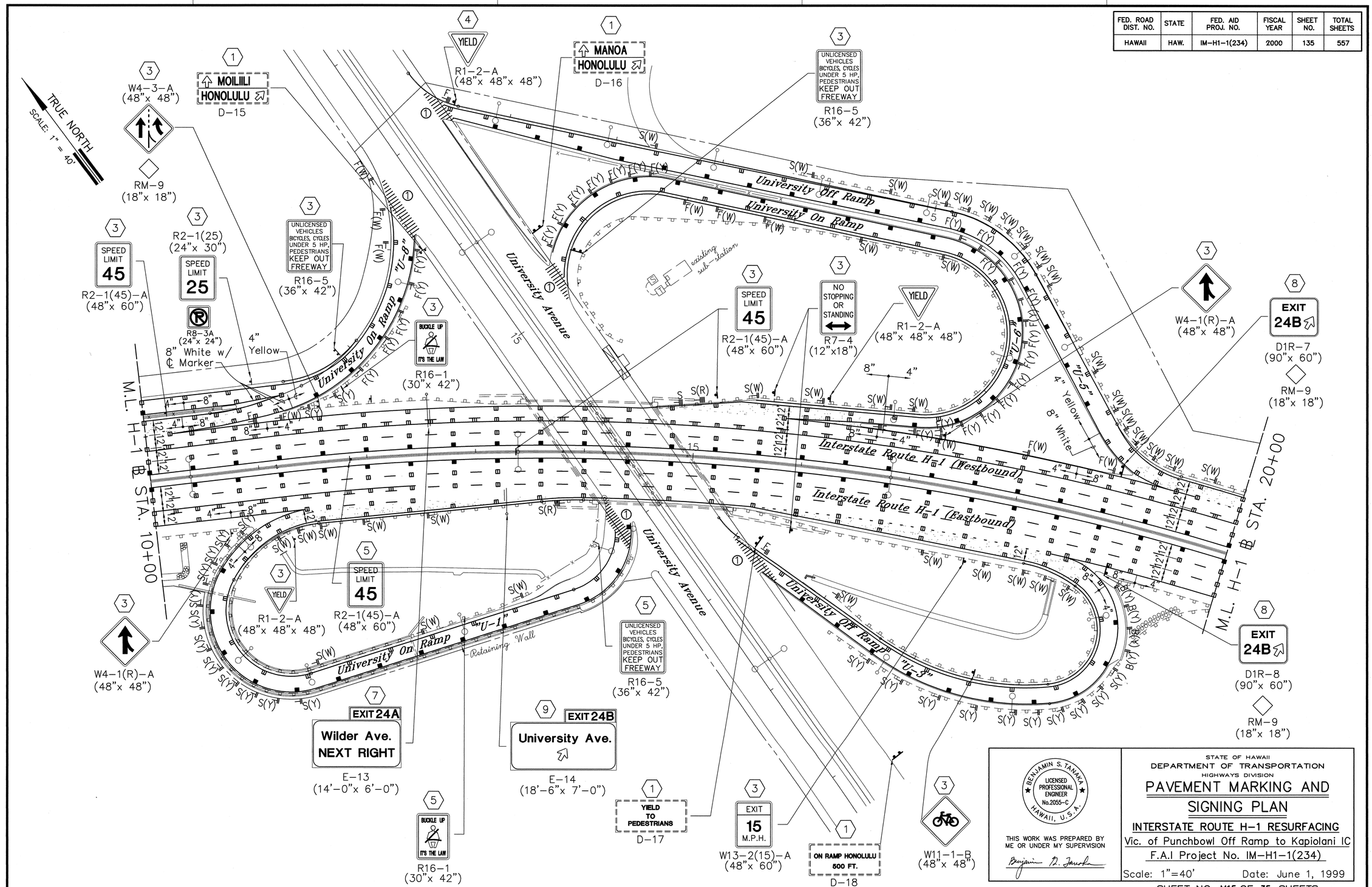
Vic. of Punchbowl Off Ramp to Kapiolani IC

F.A.I Project No. IM-H1-1(234)

Scale: 1"=40' Date: June 1, 1999

SHEET NO. M14 OF 35 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	135	557



ROTATED: 36° 56' 26.61" AT 0,0
DATE: 6/17/98
SCALE: 1" = 40'
FILE: 9815-49
PM: BST
OPER: SHA-HC,FAI,BTY
REVISED: 07/08/99

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

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKING AND SIGNING PLAN

INTERSTATE ROUTE H-1 RESURFACING

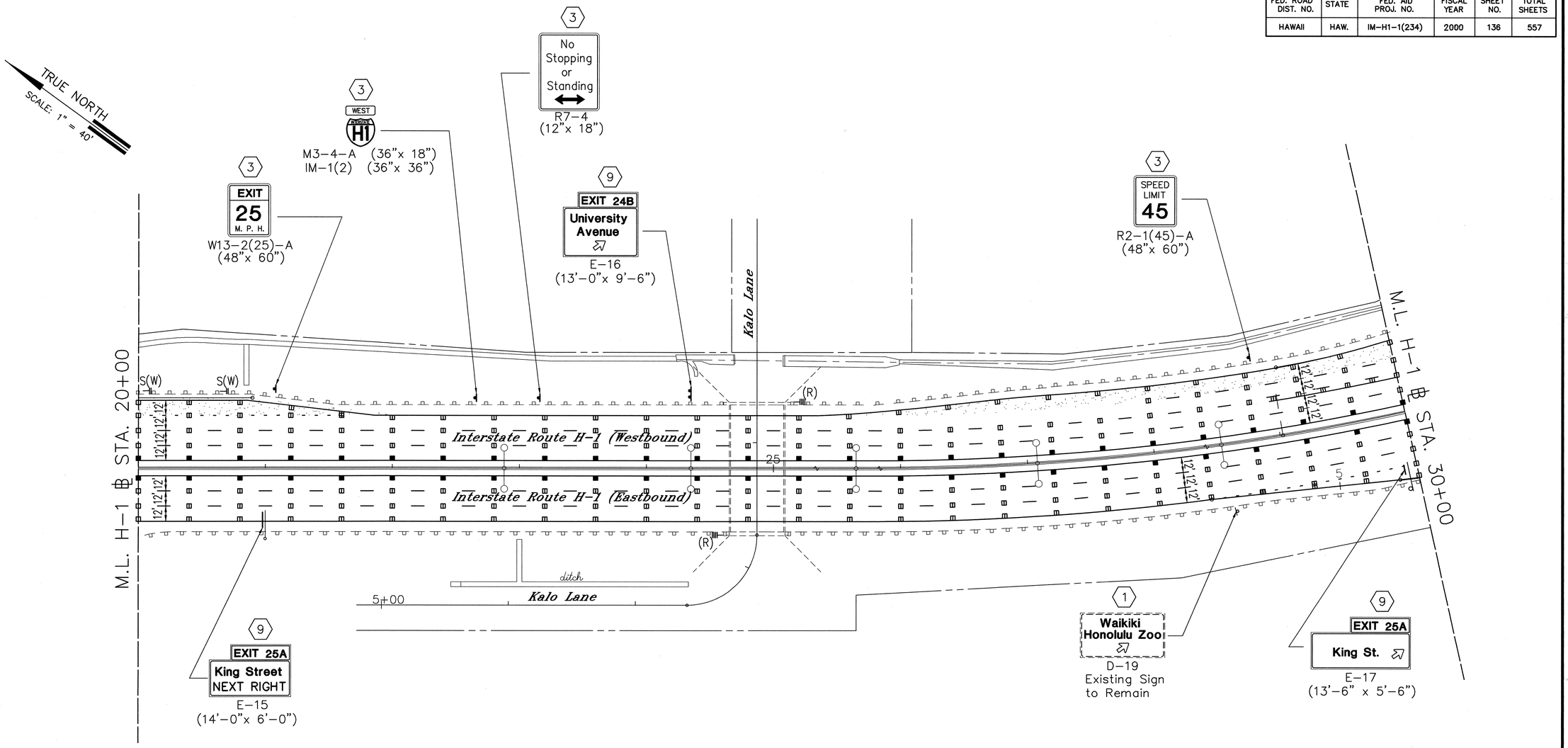
Vic. of Punchbowl Off Ramp to Kapiolani IC

F.A.I Project No. IM-H1-1(234)

Scale: 1"=40' Date: June 1, 1999

SHEET NO. M15 OF 35 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	136	557



PM: BST
OPER: SHA*FAI
REVISED: 05/09/99

ROTATED: 53° 36' 00" AT 0,0
DATE: 6/17/98
SCALE: 1 = 40
FILE: 9815-50

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

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKING AND SIGNING PLAN

INTERSTATE ROUTE H-1 RESURFACING

Vic. of Punchbowl Off Ramp to Kapiolani IC

F.A.I Project No. IM-H1-1(234)

Scale: 1"=40' Date: June 1, 1999

SHEET NO. M16 OF 35 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	137	557

TRUE NORTH
SCALE: 1" = 40'

3
W4-1(R)-A
(48"x 48")

11
SPEED LIMIT 50 MINIMUM 40
R2-4a(50/40)-A
(48"x 96")

1
King St.
H1 WEST
FREEWAY

9
EXIT 24B
University Avenue
1/2 MILE
E-19
(13'-0"x 8'-6")

1
W1-1(L)-A
(48"x 48")

1
EXIT 25
M. P. H.
W13-2(25)
(48"x 60")

8
EXIT 25A
DIR-10
(90"x 60")
RM-9
(18"x 18")

M.L. H-1 ℄ STA. 30+00

8" White
4" Yellow
8" - 4"
12' 12' 12' 12' 12'
Old Waialae Rd. On Ramp
"T"
Tie Into Existing Pavement Markings
Old Waialae Rd.
conc. barricade
Old Waialae Rd. Off Ramp
(R)
(L)
35
S(R)
5
Old Waialae Rd. On Ramp
King St. Off Ramp
Old Waialae Rd.
Tie Into Existing Pavement Markings
M.L. H-1 ℄ STA. 40+00

5
SLOWER TRAFFIC KEEP RIGHT
R4-3-A
(48"x 60")

9
EXIT 25B
6th Avenue
3/4 MILE
E-18
(15'-0"x 5'-6")

8
EXIT 25A
DIR-9
(90"x 60")
RM-9
(18"x 18")

11
SPEED LIMIT 45
R2-1(45)-A
(48"x 60")

ROTATED: 19° 26' 00" AT 0,0
DATE: 6/17/98
SCALE: 1" = 40'
FILE: 9815-51
PM: BST
OPER: SHA,*FAI
REVISED: 08/29/00

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

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKING AND SIGNING PLAN

INTERSTATE ROUTE H-1 RESURFACING

Vic. of Punchbowl Off Ramp to Kapiolani IC

F.A.I Project No. IM-H1-1(234)

Scale: 1"=40' Date: June 1, 1999

SHEET NO. M17 OF 35 SHEETS

CO 137

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	138	557

TRUE NORTH
SCALE: 1" = 40'

(1) EXIT 25A
King Street
E-20

(1) Waikiki Honolulu Zoo
D-20

(3) MILE 25
D10-5(25)
(12"x 36")

(7) EXIT 35 M. P. H.
W13-2(35)
(48"x 60")
Remove Existing Sign and Install New Sign on Sign Bridge Post

(1) EXIT 25B
Kapiolani Blvd
EXIT ONLY
E-21

(8) EXIT 25B
DIR-11
(90"x 60")
RM-9
(18"x 18")

M.L. KAPIOLANI OFF RAMP Ⓑ STA. 20+00

Manoa-Palolo Drainage Canal

Old Waialae Rd. Off Ramp

Kapiolani Off Ramp

Kapiolani Blvd.

Interstate Route H-1 (Westbound)

Interstate Route H-1 (Eastbound)

Kapiolani On Ramp

Harding Ave.

South King Street

Kapiolani Blvd.

M.L. H-1 Ⓑ STA. 40+00

M.L. H-1 Ⓑ STA. 50+00

M.L. KAPIOLANI ON RAMP Ⓑ STA. 12+00

4" Yellow
8" White

(3) W4-3-A
(48"x 48")

(3) MILE 25
D10-5(25)
(12"x 36")

(7) REDUCED SPEED 45
R2-5b(45)-A
(48"x 60")

(1) HI WEST Waianae
E-22(L)

(9) EXIT 25 A
King St.
NEXT RIGHT
E-22(R)
(10'-6"x 5'-0")

Milepost Pavement Marking
See Sht. M26

ROTATED: 33° 45' 19.41" AT 0.0
DATE: 6/17/98
SCALE: 1" = 40
FILE: 9815-52
PM: BST
OPER: SHA *FAI
REVISED: 05/11/99

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

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKING AND SIGNING PLAN

INTERSTATE ROUTE H-1 RESURFACING

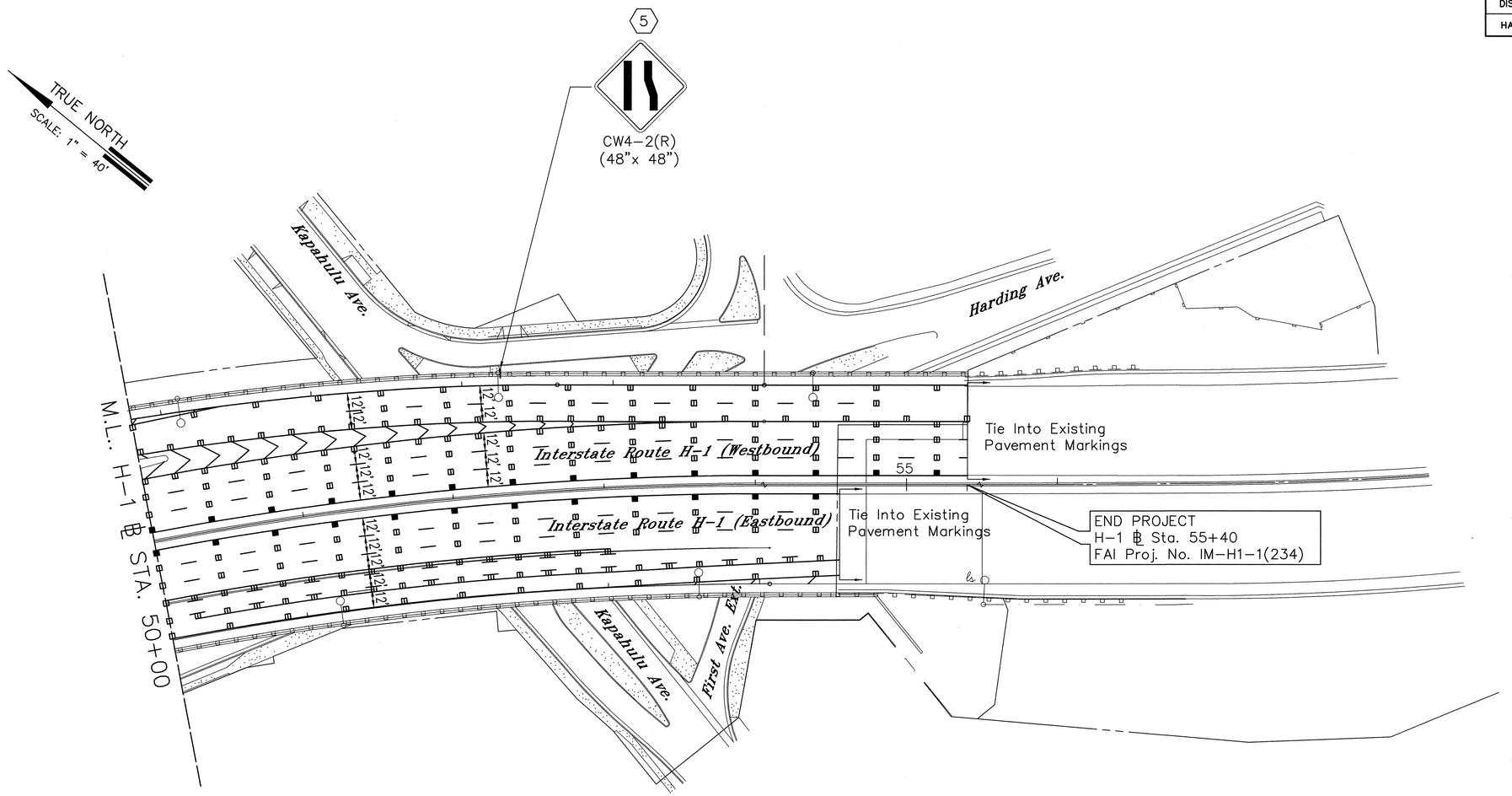
Vic. of Punchbowl Off Ramp to Kapiolani IC

F.A.I Project No. IM-H1-1(234)

Scale: 1"=40' Date: June 1, 1999

SHEET NO. M18 OF 35 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	139	557



ROTATED: 50° 45' 59.96"
AT 0,0

DATE: 6/17/98
SCALE: 1 = 40
FILE: 9815-53

P.M: BST
OPER: SHA*FAI
REVISED: 05/09/99

SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

ORIGINAL PLAN
NOTEBOOK No.

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKING AND SIGNING PLAN

INTERSTATE ROUTE H-1 RESURFACING

Vic. of Punchbowl Off Ramp to Kapiolani IC

F.A.I Project No. IM-H1-1(234)

Scale: 1"=40' Date: June 1, 1999

SHEET NO. **M19** OF **35** SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	140	557

TRUE NORTH
SCALE: 1" = 40'

St. Names
6 1300 WARD AVE
900 KINAU ST
ONE WAY R6-1(R) (36"x 12")

5 ONE WAY R6-1(L) (36"x 12")

3 NO PARKING CORNER TO HERE R7-1 (12"x 18")

3 STOP FOR PEDESTRIANS IN X-WALK (42"x 42")

3 STOP R1-1 (30"x 30")

3 DO NOT BLOCK INTERSECTION R10-7 (24"x 30")

3 NO PARKING CORNER TO HERE R7-1 (12"x 18")

St. Name 3 830 KINALAU ST

3 NO OUTLET W14-2 (30"x 30")

5 YIELD R1-2 (36"x 36"x 36")

3 RIGHT LANE AT BERETANIA ONLY (48" x 48")

4" Double Yellow W/ Type "D" RPM @ 20'-0" O.C.

3 R8-3a (24"x 24")
ANY TIME R8-3B (24"x 18")
R7-201a (12"x 6")

2 TWO WAY TRAFFIC
3 W6-3 (30"x 30")

St. Names
6 1400 WARD AVE
900 LUNALILO ST

5 The Bus Bus Information 848-5555 NO STOPPING R7-107b (12"x 24")

Tie Into Existing Pavement Markings

6 ONE WAY R6-1(L) (36"x 12")

5 R8-3a (24"x 24")
ANY TIME R8-3B (24"x 18")
R7-201a (12"x 6")

Tie Into Existing Pavement Markings

3 DO NOT ENTER R5-1 (30"x 30")

DO NOT BLOCK INTERSECTION R10-7 (24"x 30")

17 ONE WAY R6-1(R) (36"x 12")

17 ONE WAY R6-1(L) (36"x 12")

1 1300 WARD AVE
900 KINAU ST

5 R3-2 (24"x 24")
R8-3a (24"x 24")
ANY TIME R8-3B (24"x 18")

4" Double Yellow, 10'-0" Long W/ Type "DL" RPM @ 20'-0" O.C.

3 NO PARKING 6:30 AM TO 8:30 AM MON.-FRI. EXCEPT HOLIDAY R7-1 (12"x 18")
R7-201a (12"x 6")

3 NO PARKING 6:30 AM TO 8:30 AM MON-FRI-EXCEPT HOL R7-1 (12"x 18")
R7-201a (12"x 6")

1 EAST H1 WAIKIKI D-20

1 HONOLULU TRAFFIC MANAGEMENT CENTER

3 W11A-2 (30"x 30")

1 EAST H1 WAIKIKI D-21

For Continuation of Pavement Marking and Signing Plan, See Sht. M5

3 R8-3a (24"x 24")
ANY TIME R8-3B (24"x 18")

2 NO RIGHT TURN
3 R3-1 (24"x 24")

3 The Bus Bus Information 848-5555 NO STOPPING R7-107b (12"x 24")

Ward Ave.
Kinau St.
Kinalau Pl.
Ward Ave. On Ramp
Interstate Route H-1 (Eastbound)
Interstate Route H-1 (Westbound)
Lunalilo St.
16' 12' 12' 16'
12' 12' 12'

Note:

Existing Contra-Flow Sleeves for Delineators are not Shown. The Contractor shall Ensure that the Sleeves are Kept Intact During and After Pavement Resurfacing. If the Sleeves Become Clogged, the Contractor shall Clean Out or Replace the Sleeves at his Own Expense.

ROTATED: (-)69° 59' 59.92" AT 0,0
DATE: 6/19/98 PM: BST
SCALE: 1 = 40 OPER: *SHA,FAI,BTY
FILE: 9815-64 REVISED: 07/15/99

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

BENJAMIN S. TANAKA LICENSED PROFESSIONAL ENGINEER No.2055-C HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

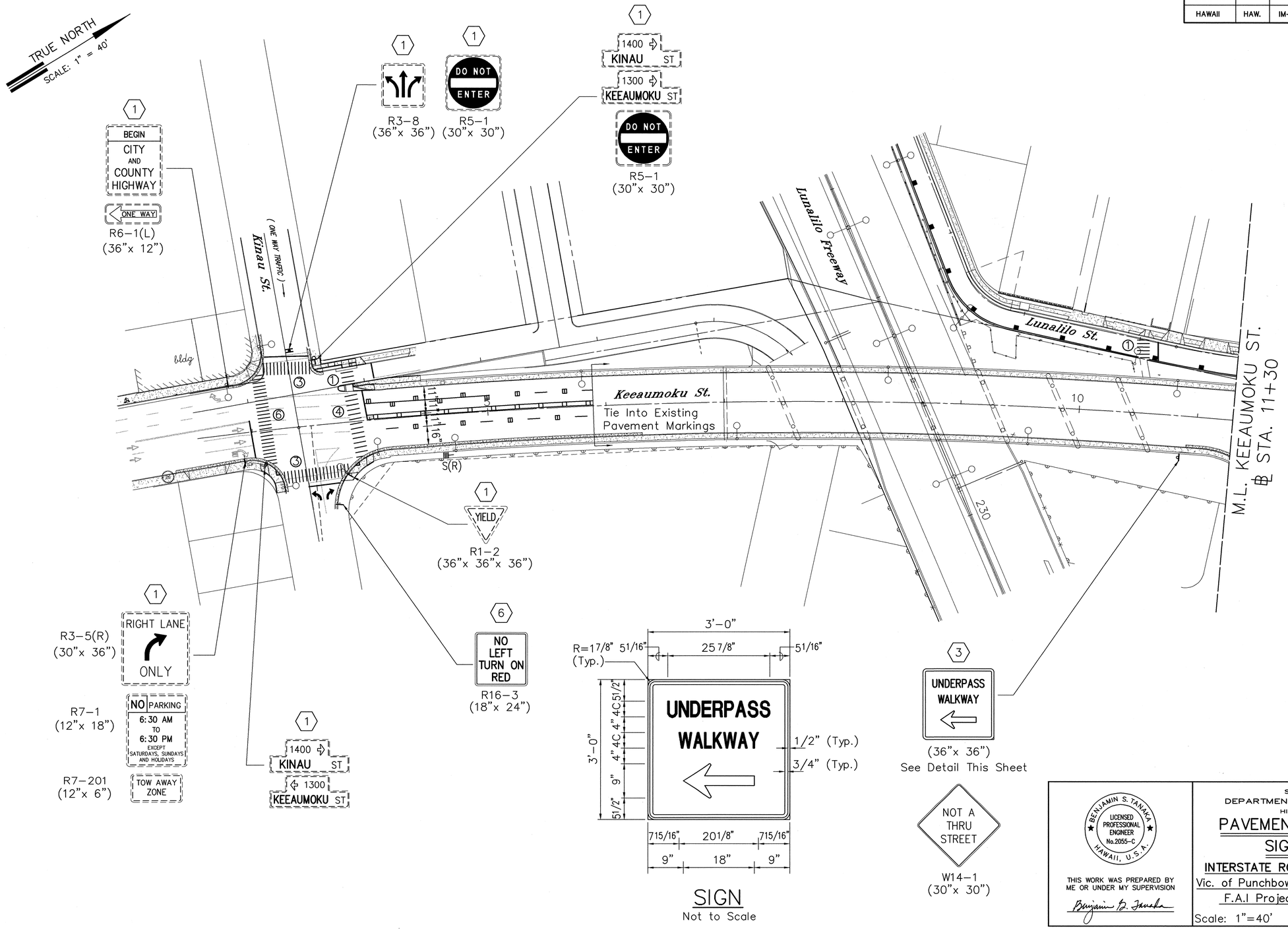
PAVEMENT MARKING AND SIGNING PLAN

INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

Scale: 1"=40' Date: June 1, 1999

SHEET NO. M20 OF 35 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	141	557



ROTATED: (-)58° 39' 47.46" AT 0,0
DATE: 6/17/98
SCALE: 1 = 40
FILE: 9815-57
PM: BST
OPER: SHA*FAI
REVISED: 05/09/99

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

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKING AND SIGNING PLAN

INTERSTATE ROUTE H-1 RESURFACING

Vic. of Punchbowl Off Ramp to Kapiolani IC

F.A.I Project No. IM-H1-1(234)

Scale: 1"=40' Date: June 1, 1999

SHEET NO. M21 OF 35 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	142	557

TRUE NORTH
SCALE: 1" = 40'

5 NO STOPPING OR STANDING
R7-4
(12"x 18")

3 M3-4-A
(36"x 18")
IM-1(2)
(36"x 36")
(21"x 15")

3 M3-4-A
(36"x 18")
IM-1(2)
(36"x 36")
M6-2(R)
(21"x 15")

3 SPEED LIMIT 25
R2-1(25)
(24"x 30")

3 R8-3a
(24"x 24")
ANY TIME
R8-3B
(24"x 18")
R7-201a
(12"x 6")

3 R8-3a
(24"x 24")
ANY TIME
R8-3B
(24"x 18")

3 R8-3a
(24"x 24")
ANY TIME
R8-3B
(24"x 18")
R7-201a
(12"x 6")

Kahee St.

M.L. KEEAUMOKU ST
℄ STA. 11+30

Keeaumoku St.

Tie Into Existing
Pav't. Markings

Keeaumoku St.

Tie Into Existing
Pavement Markings

3 TOW AWAY ZONE
3:30 PM
TO
5:30 PM
EXCEPT SATURDAYS
SUNDAYS & HOLIDAYS
12"x 18"

1 BEGIN
CITY
AND
COUNTY
HIGHWAY

NO PARKING
6:30 AM
TO
6:30 PM
EXCEPT
SATURDAYS, SUNDAYS
AND HOLIDAYS
R7-1
12"x 18"

3 DO NOT CROSS HERE USE UNDERPASS WALKWAY
(48"x 54")
See Detail
This Sheet

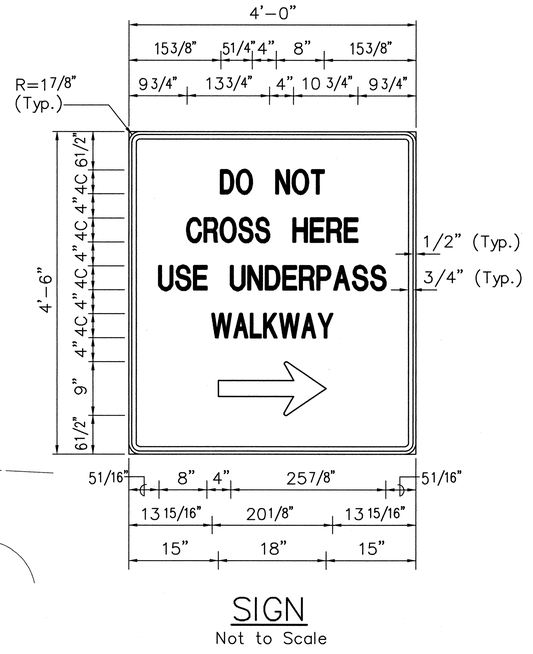
3 R9-3a-A
(24"x 24")
NO PED XING
2

3 R8-3a
(24"x 24")
ANY TIME
R8-3B
(24"x 18")
R7-201a
(12"x 6")

3 R8-3a
(24"x 24")
ANY TIME
R8-3B
(24"x 18")
R7-201a
(12"x 6")

5 R8-3a
(24"x 24")
ANY TIME
R8-3B
(24"x 18")
R7-201a
(12"x 6")

3 The Bus
Bus Information
848-5555
ALOHA The Bus
R7-107b
(12"x 24")



SIGN
Not to Scale

ROTATED: (-)49° 21' 44.70"
AT 0,0

DATE: 6/17/98
SCALE: 1" = 40
FILE: 9815-58

PM: BST
OPER: SHA*FAI
REVISED: 05/09/99

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

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION
Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKING AND SIGNING PLAN

INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

Scale: 1"=40' Date: June 1, 1999

SHEET NO. M22 OF 35 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	143	557

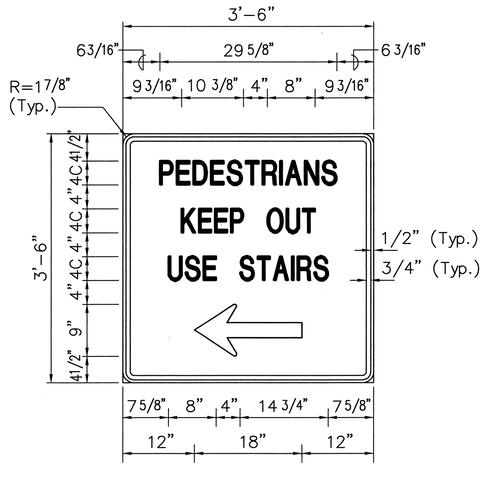
TRUE NORTH
SCALE: 1" = 40'

Tie into Exist. Pavement Markings

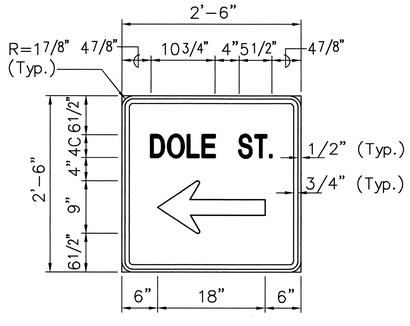
Beretania Street
Coyne Street
McCully Street
Bingham Street
Metcalf St.
Dole Street
Metcalf Street

(1) NO RIGHT TURN ON RED R16-4 (18"x 24")
(1) DO NOT ENTER R5-1 (30"x 30")
(1) RIGHT TURN ONLY R3-5(R) (30"x 36")
(1) NO PARKING ANY TIME R7-1 (12"x 18")
(3) YIELD R1-2 (36"x 36"x 36")
(6) ONE WAY R6-1(R) (36"x 12")
(6) ONE WAY R6-1(L) (36"x 12")
(3) BIKE ROUTE D11-1 (24"x 18")
(3) R8-3a (24"x 24") + ANY TIME R8-3B (24"x 18")
(3) PEDESTRIANS KEEP OUT USE STAIRS W-56(L) (42"x 42") See Detail This Sht.
(3) R8-3a (24"x 24") + ANY TIME R8-3B (24"x 18") + R7-201a (12"x 6") 4" Yellow
(3) R3-2 (24"x 24")
(2) NO LEFT TURN
(3) STOP R1-1 (30"x 30")
(3) BIKE ROUTE D11-1 (24"x 18") + W1-7 (48"x 24")
(3) ONE WAY R6-1(R) (36"x 12")
(3) ONE WAY R6-1(L) (36"x 12")
(3) 1500 OLIVER ST / 1950 DOLE ST
(3) NO LEFT TURN INTO METCALF ST. (12"x 18")
(3) STOP R1-1 (30"x 30")
(3) DO NOT ENTER R5-1 (30"x 30")
(12) KEEP OFF BRIDGE RAILINGS (24"x 18")
(3) M3-4-A (36"x 18") WEST + IM-1(2) (36"x 36")
(3) DOLE ST. (30"x 30") See Detail This Sht.
(3) LEFT TURN INTO DOLE ST. ONLY (12"x 18")
(3) M3-4-A (36"x 18") WEST + IM-1(2) (36"x 36")
(3) 1420 McCULLY ST
(3) PEDESTRIANS KEEP OUT USE STAIRS W-56(R) (42"x 42") See Detail This Sht.
(3) BIKE ROUTE D11-1 (24"x 18")
(3) M6-2(L) (21"x 15")
(3) 2000 DOLE ST / 2000 METCALF ST
(3) STOP R1-1 (30"x 30")

St. Names



W-56(L) OR (R)
Not to Scale



SIGN
Not to Scale

ROTATED: (-)68° 48' 00" AT 0,0
DATE: 6/17/98
SCALE: 1" = 40
FILE: 9815-59
PM: BST
OPER: SHA*THC*FAI
REVISED: 05/09/99

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

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKING AND SIGNING PLAN

INTERSTATE ROUTE H-1 RESURFACING

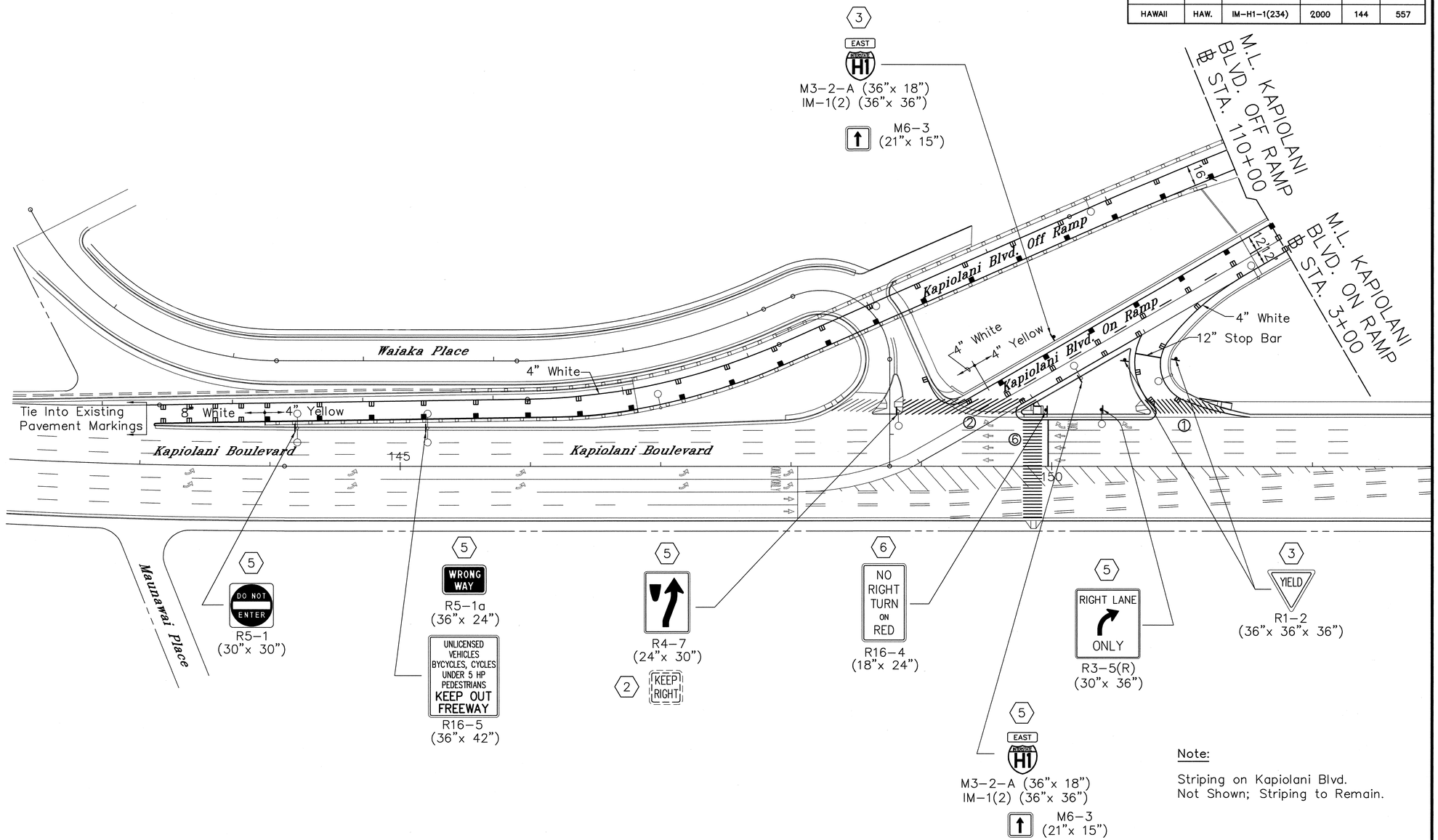
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

Scale: 1"=40' Date: June 1, 1999

SHEET NO. M23 OF 35 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	144	557

TRUE NORTH
SCALE: 1" = 40'



Note:

Striping on Kapiolani Blvd.
Not Shown; Striping to Remain.

ROTATED: (-)11° 14' 0.27"
AT 0,0

DATE: 6/17/98
SCALE: 1" = 40
FILE: 9815-60

PM: BST
OPER: SHA*FAI
REVISED: 05/09/99

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

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

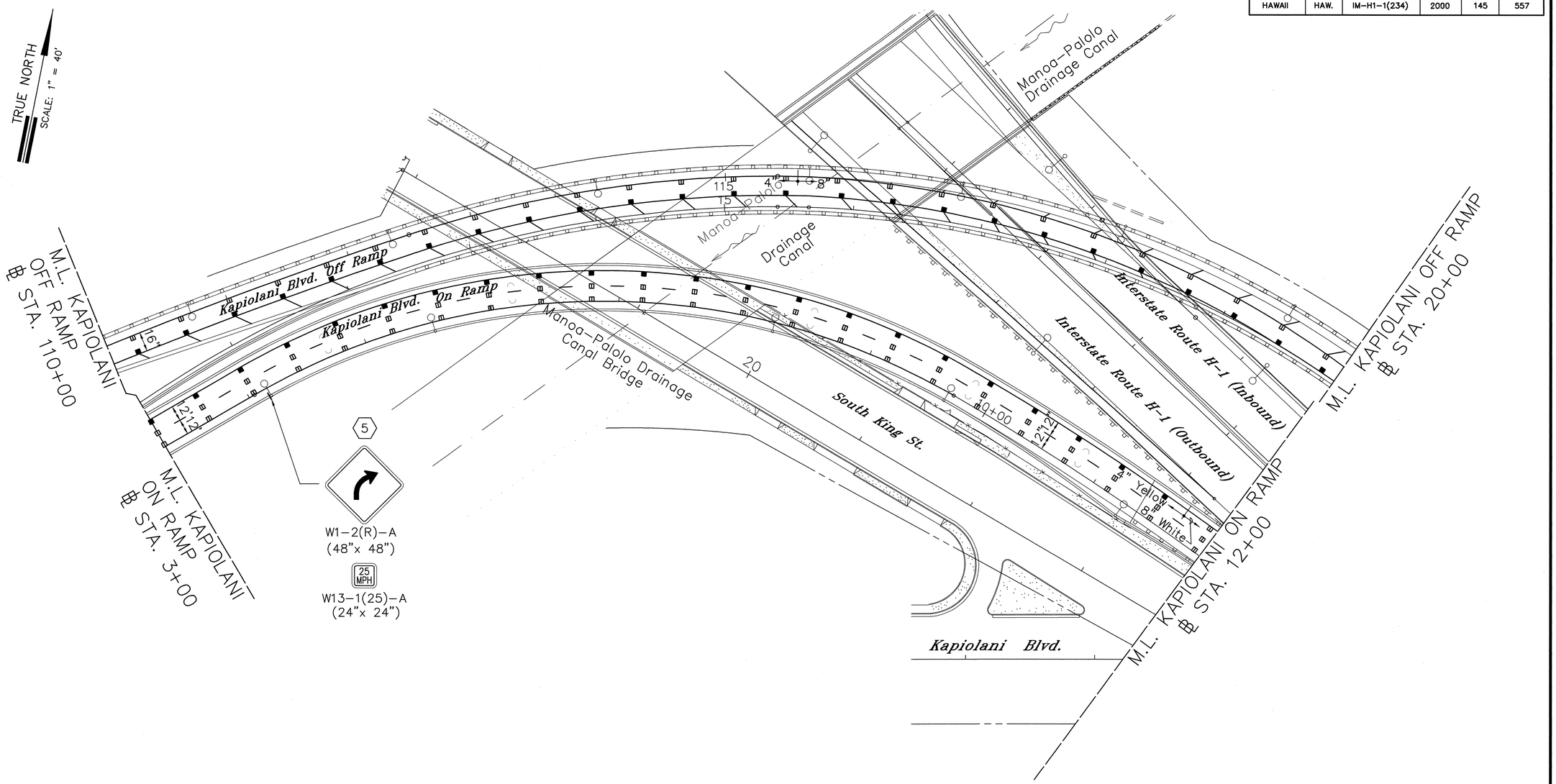
PAVEMENT MARKING AND SIGNING PLAN

INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

Scale: 1"=40' Date: June 1, 1999

SHEET NO. **M24** OF **35** SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	145	557



ROTATED: (-)11° 14' 0.27"
AT 0,0

DATE: 6/17/98
SCALE: 1 = 40
FILE: 9815-61

PM: BST
OPER: SHA*FAI
REVISED: 05/09/99

ORIGINAL PLAN	NOTEBOOK	No.

DATE
SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT MARKING AND SIGNING PLAN

INTERSTATE ROUTE H-1 RESURFACING

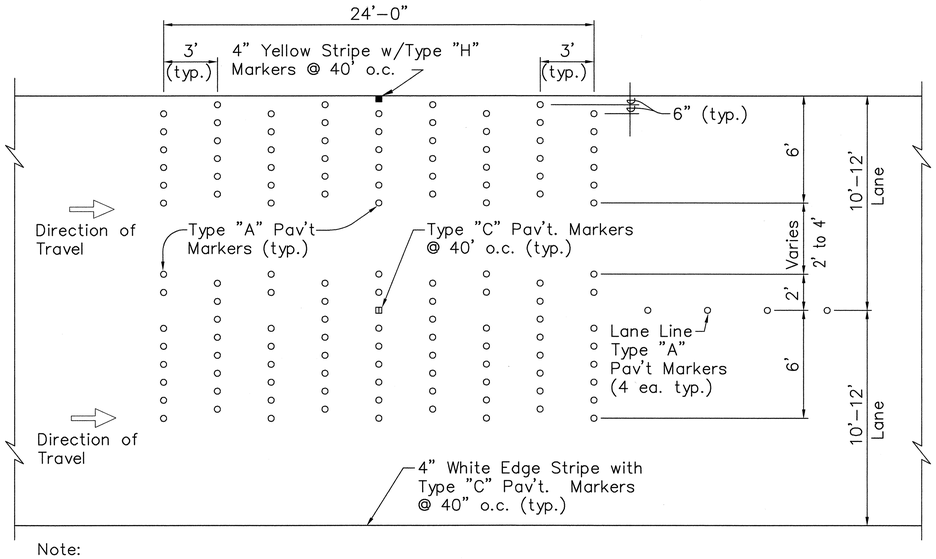
Vic. of Punchbowl Off Ramp to Kapiolani IC

F.A.I Project No. IM-H1-1(234)

Scale: 1"=40' Date: June 1, 1999

SHEET NO. **M25** OF **35** SHEETS

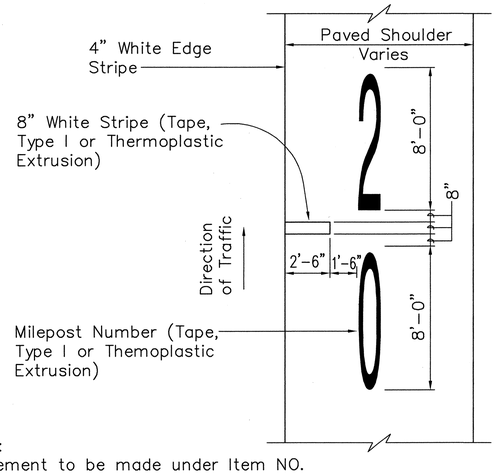
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	146	557



Note:
Rumble Strip will be paid for under Item No. 629.2010 – Type "A" Pavement Markers

RUMBLE STRIP DETAIL

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



NOTE:
Pavement to be made under Item NO. 629.1061 – Milepost Pavement Markings (Tape, Type I of Thermoplastic Extrusion)

TYPICAL MILEPOST PAVEMENT MARKINGS DETAIL

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

PM: BST
OPER: SHA,*FAI
REVISED: 05/09/99

DATE: 03/19/99
SCALE: 1 = 1
FILE: 9815-194

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

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

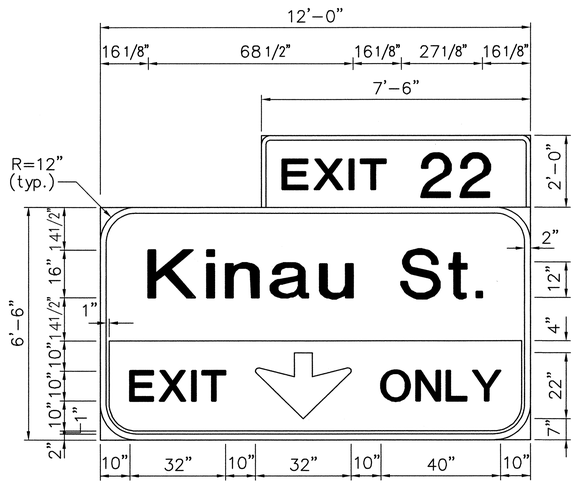
PAVEMENT MARKINGS AND SIGN DETAILS

INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I. Project No. IM-H1-1(234)

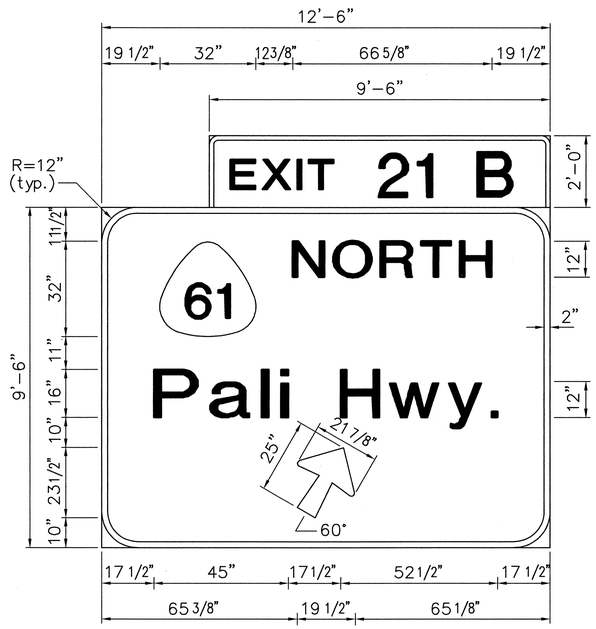
Scale: As Shown Date: June 1, 1999

SHEET NO. M26 OF 35 SHEETS

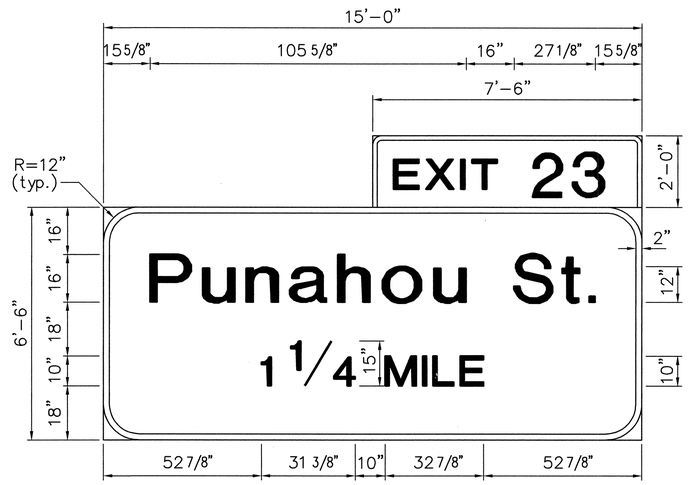
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	147	557



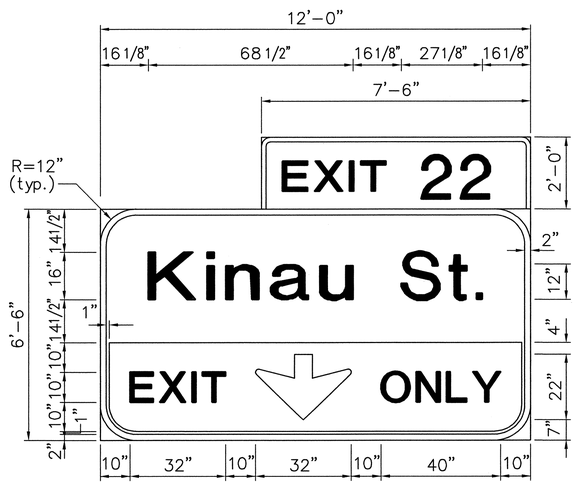
E-1
Scale: 1/2"= 1'-0"



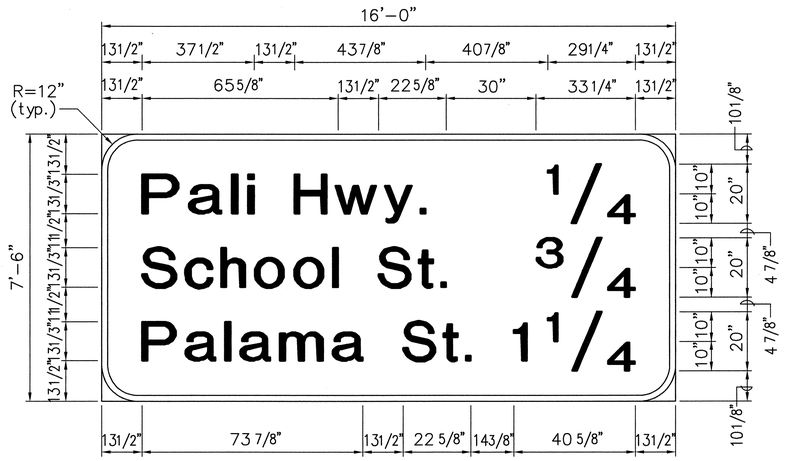
E-2
Scale: 1/2"= 1'-0"



E-3 (L)
Scale: 1/2"= 1'-0"



E-3 (R)
Scale: 1/2"= 1'-0"



E-4
Scale: 1/2"= 1'-0"

EXPRESSWAY (E) AND DESTINATION (D) SIGN NOTES

1. The Contractor shall verify the locations and dimensions of existing Sign Panels and supports.
2. New sign panels shall be laminated aluminum or extruded aluminum.
3. Letter Size:
   a. When letters are all uppercase, use series "E"
   b. When initial uppercase letter is used in conjunction with lowercase letters, used series "E"(M) for uppercase
4. Contractor shall submit all sign splicing details to the Engineer for approval. All backing for signs 4 feet by 6 feet or less shall be of one sheet.
5. Destination and Expressway Sign Posts shall be as noted on the plans.
6. Incidental parts and services not shown on the plans or specified but deemed necessary for the sign installation, shall be furnished and installed by the Contractor as part of the work contracted.
7. Removal and disposal of existing sign panels, posts with foundation, luminaries and supports will not be paid for separately, but shall be considered incidental to the various signing items.

DATE: 03/19/99
SCALE: 1/2" = 1'-0"
FILE: 9815-205

PM: BST
OPER: SHA,*FAI
REVISED: 05/09/99

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

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

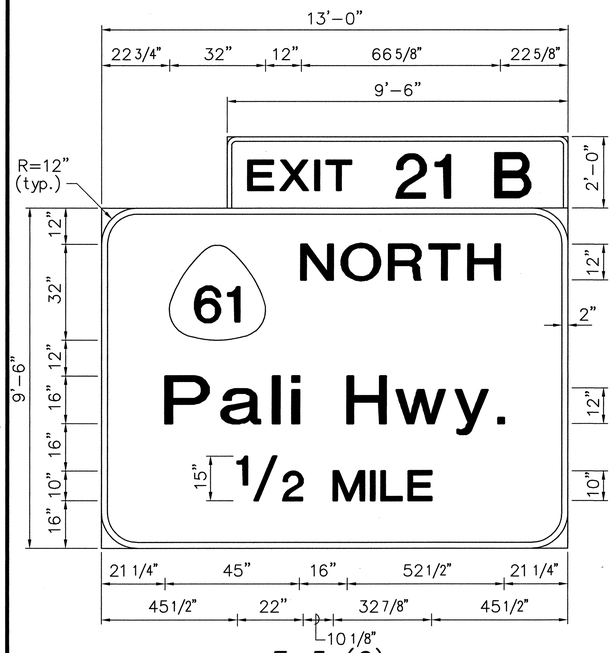
SIGN PANEL DETAILS & NOTES

INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I. Project No. IM-H1-1(234)

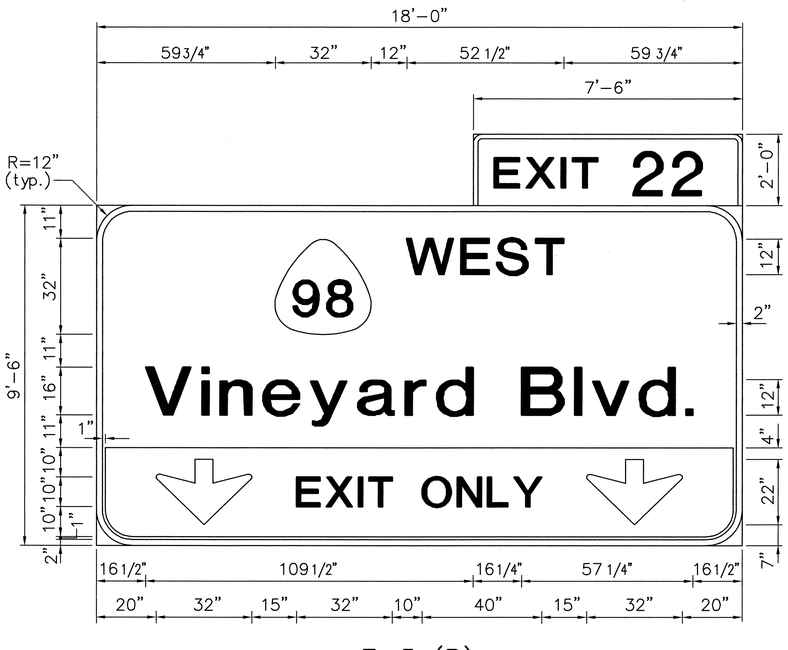
Scale: As Shown Date: June 1, 1999

SHEET NO. M27 OF 35 SHEETS

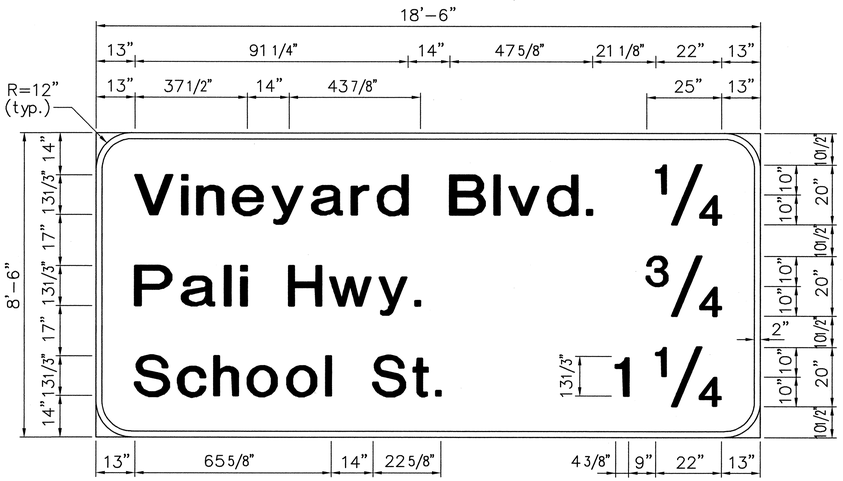
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	148	557



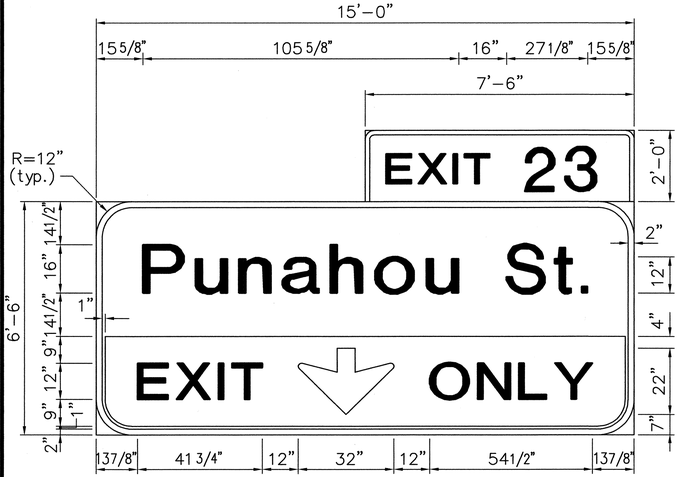
E-5 (C)
Scale: 1/2"= 1'-0"



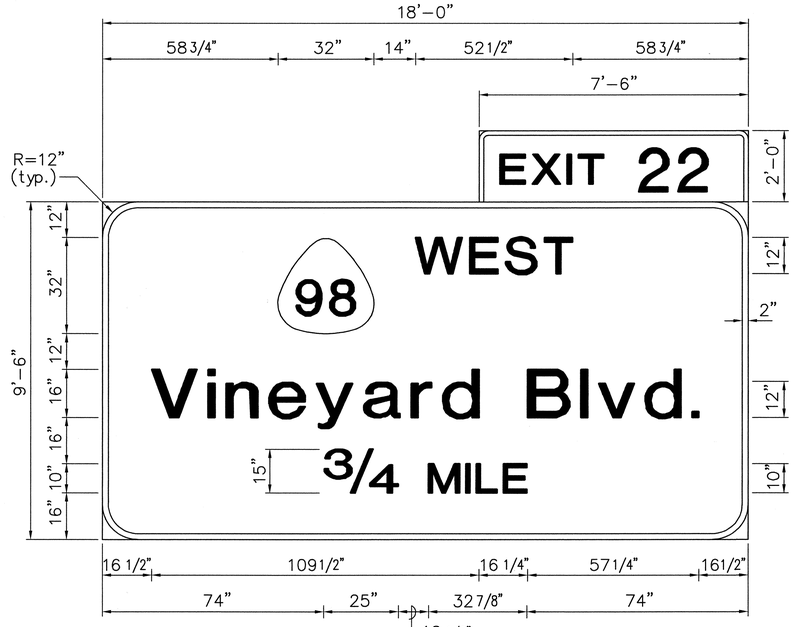
E-5 (R)
Scale: 1/2"= 1'-0"



E-6
Scale: 1/2"= 1'-0"



E-7
Scale: 1/2"= 1'-0"



E-8 (L)
Scale: 1/2"= 1'-0"

DATE: 03/19/99
SCALE: 1/2" = 1'-0"
FILE: 9815-206

PM: BST
OPER: SHA*FAI
REVISED: 05/09/99

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

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
Benjamin S. Tanaka

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGN PANEL DETAILS

INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I. Project No. IM-H1-1(234)

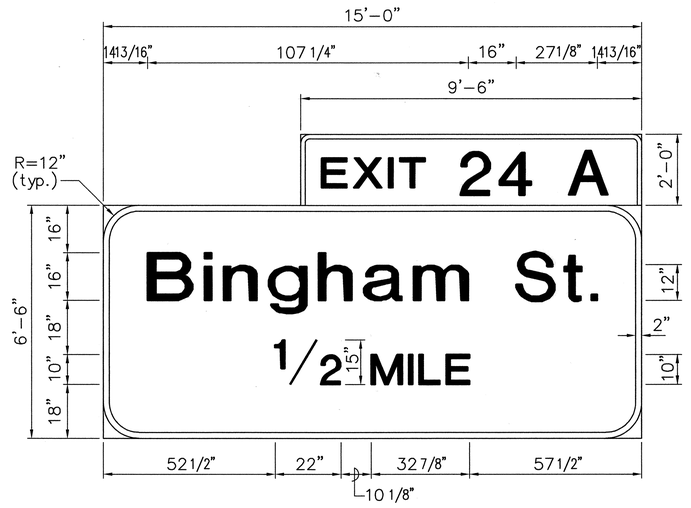
Scale: As Shown Date: June 1, 1999

SHEET NO. M28 OF 35 SHEETS

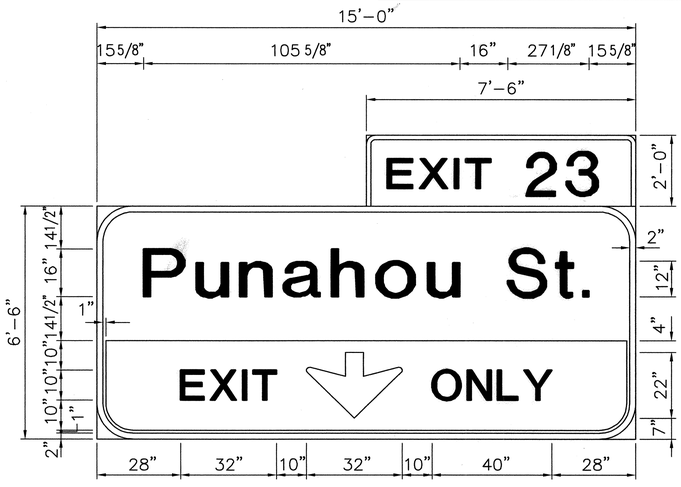
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	149	557



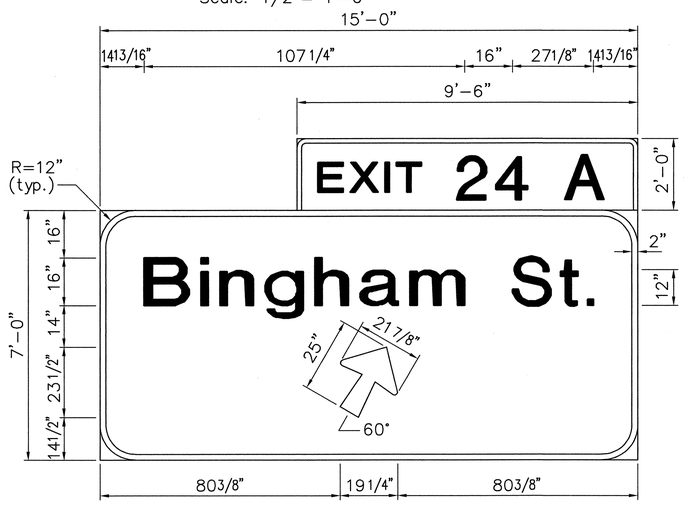
E-8 (R)
Scale: 1/2"= 1'-0"



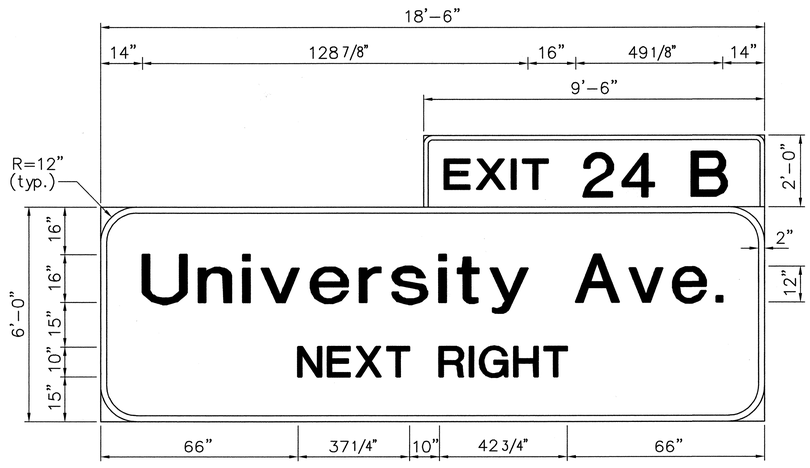
E-9 (L)
Scale: 1/2"= 1'-0"



E-9 (R)
Scale: 1/2"= 1'-0"



E-10
Scale: 1/2"= 1'-0"



E-11
Scale: 1/2"= 1'-0"

DATE: 03/19/99
SCALE: 1/2" = 1'-0"
FILE: 9815-207

PM: BST
OPER: SHA*FAI
REVISED: 05/09/99

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

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

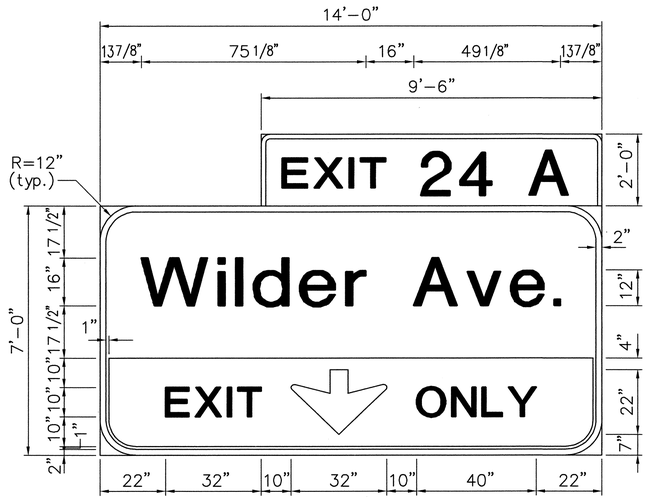
SIGN PANEL DETAILS

INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I. Project No. IM-H1-1(234)

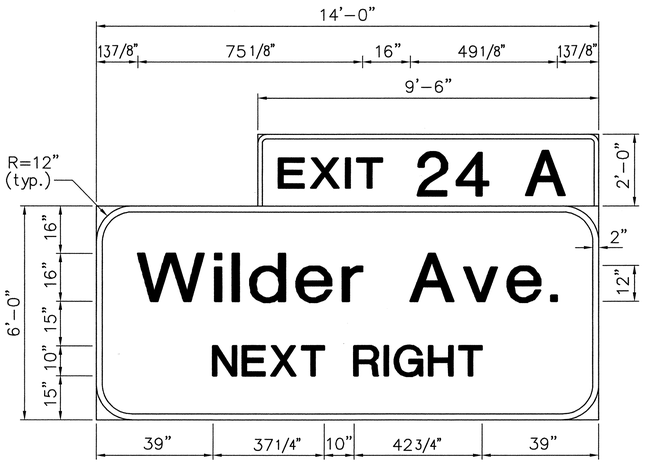
Scale: As Shown Date: June 1, 1999

SHEET NO. **M29** OF **35** SHEETS

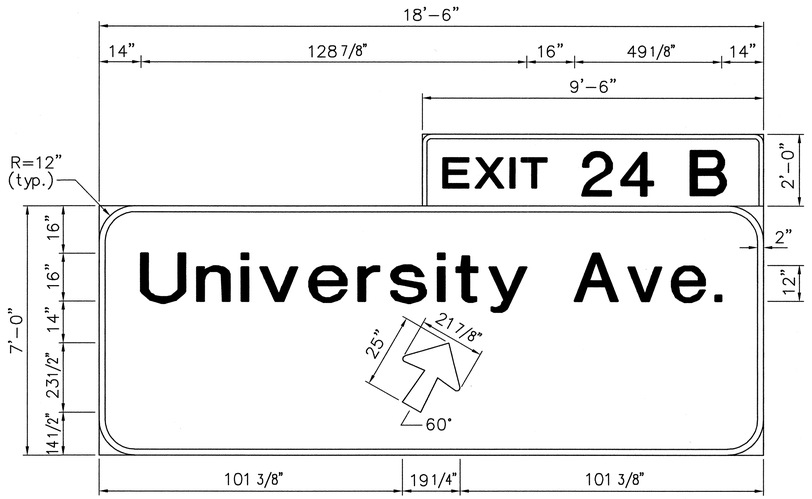
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	150	557



E-12
Scale: 1/2"= 1'-0"



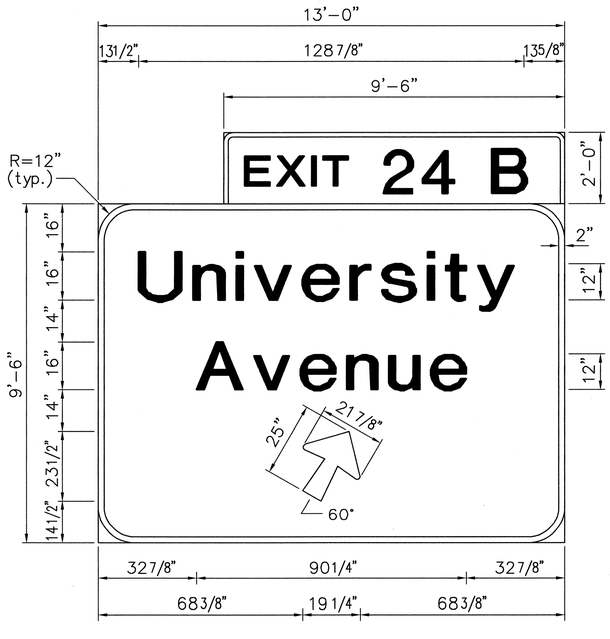
E-13
Scale: 1/2"= 1'-0"



E-14
Scale: 1/2"= 1'-0"



E-15
Scale: 1/2"= 1'-0"



E-16
Scale: 1/2"= 1'-0"

DATE: 03/19/99
SCALE: 1/2" = 1'-0"
FILE: 9815-208

PM: BST
OPER: SHA,*FAI
REVISED: 05/09/99

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

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

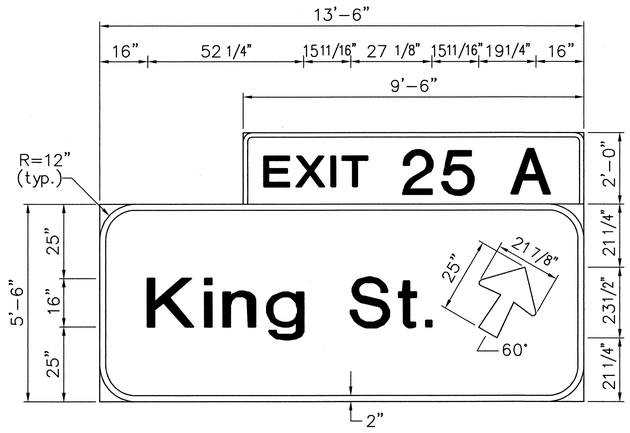
SIGN PANEL DETAILS

INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I. Project No. IM-H1-1(234)

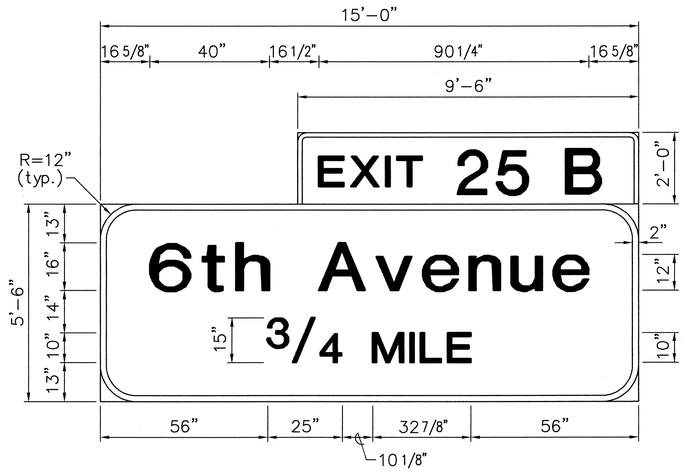
Scale: As Shown Date: June 1, 1999

SHEET NO. M30 OF 35 SHEETS

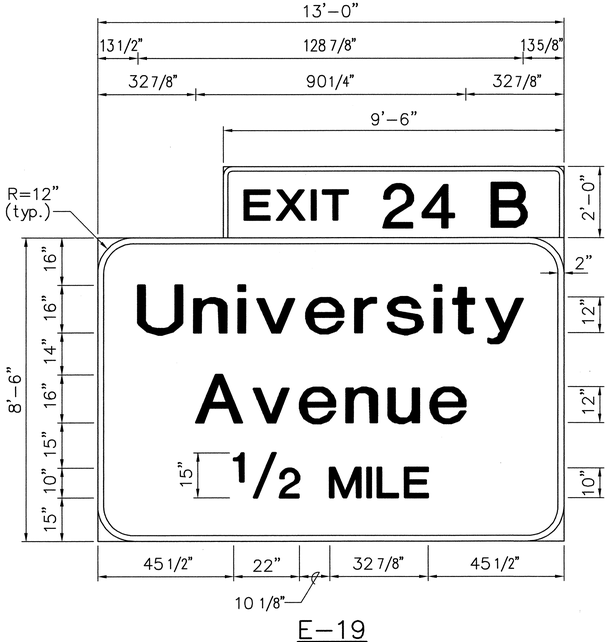
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	151	557



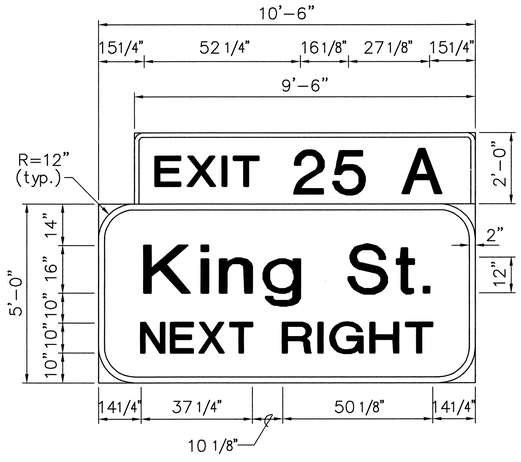
E-17
Scale: 1/2"= 1'-0"



E-18
Scale: 1/2"= 1'-0"



E-19
Scale: 1/2"= 1'-0"



E-22 (R)
Scale: 1/2"= 1'-0"

DATE: 03/19/99
SCALE: 1/2" = 1'-0"
FILE: 9815-209

PM: BST
OPER: SHA*FAI
REVISED: 05/09/99

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

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

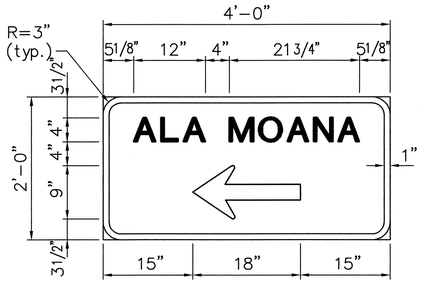
SIGN PANEL DETAILS

INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I. Project No. IM-H1-1(234)

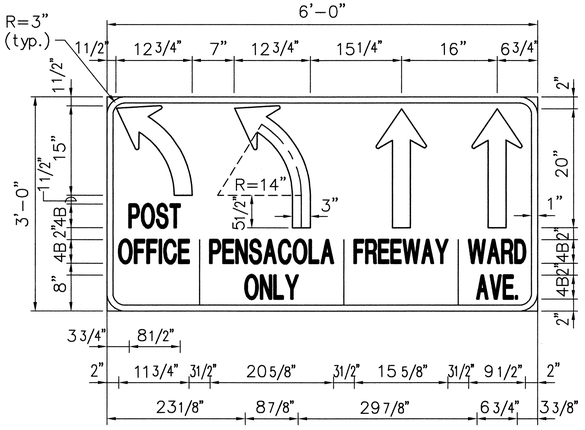
Scale: As Shown Date: June 1, 1999

SHEET NO. M31 OF 35 SHEETS

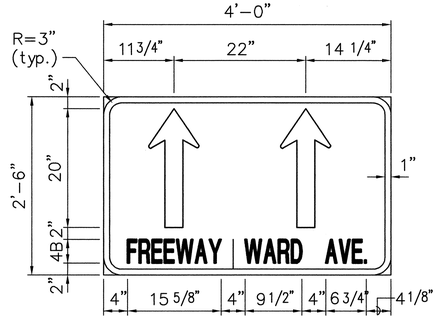
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	152	557



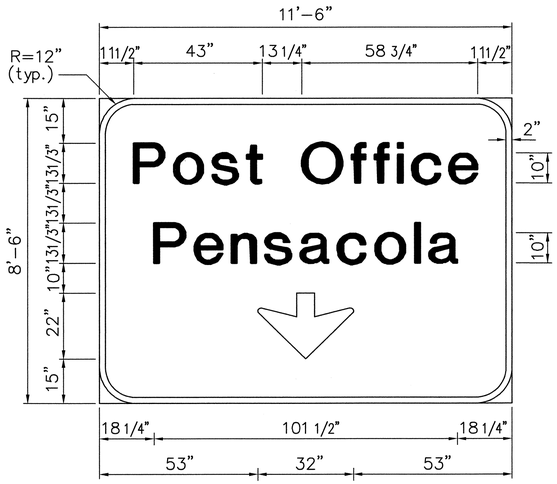
D-3 & D-5
Not to Scale



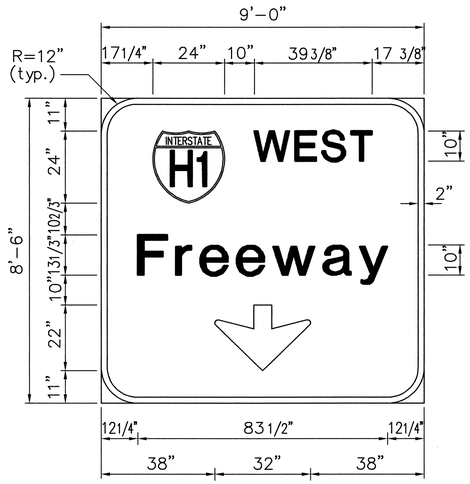
D-4 & D-6
Not to Scale



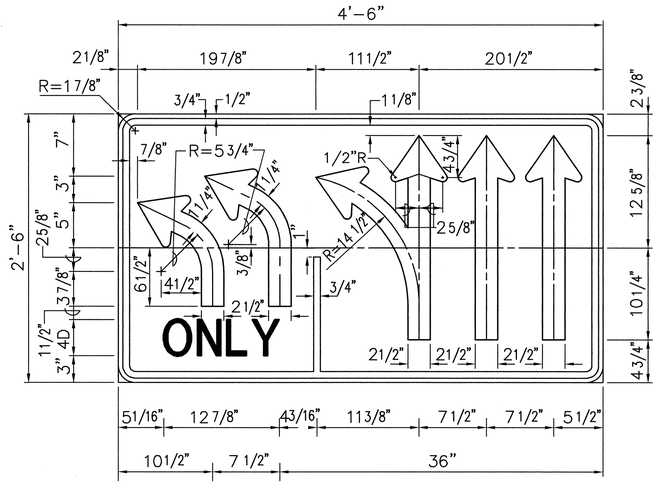
D-7
Not to Scale



D-8 (L)
Not to Scale



D-8 (R)
Not to Scale



D-9
[R3-53(MOD.)]
Not to Scale

DATE: 03/19/99
SCALE: 1 = 1
FILE: 9815-211

PM: BST
OPER: SHA,*FAI
REVISED: 05/09/99

ORIGINAL PLAN	NOTEBOOK	No.

SURVEY PLOTTED BY
DRAWN BY
TRACED BY
DESIGNED BY
QUANTITIES BY
CHECKED BY
DATE

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

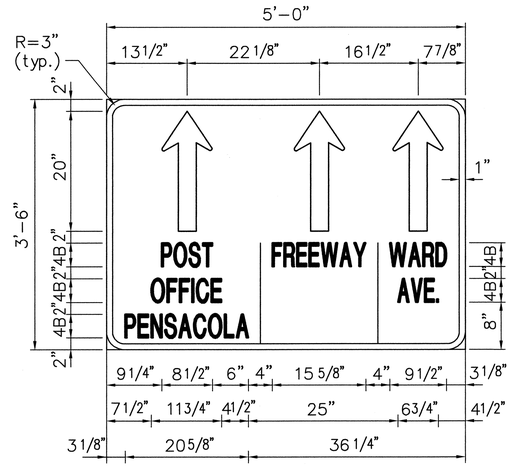
SIGN PANEL DETAILS

INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I. Project No. IM-H1-1(234)

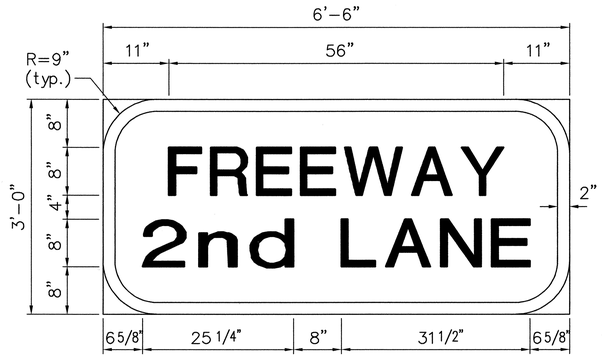
Scale: As Shown Date: June 1, 1999

SHEET NO. M32 OF 35 SHEETS

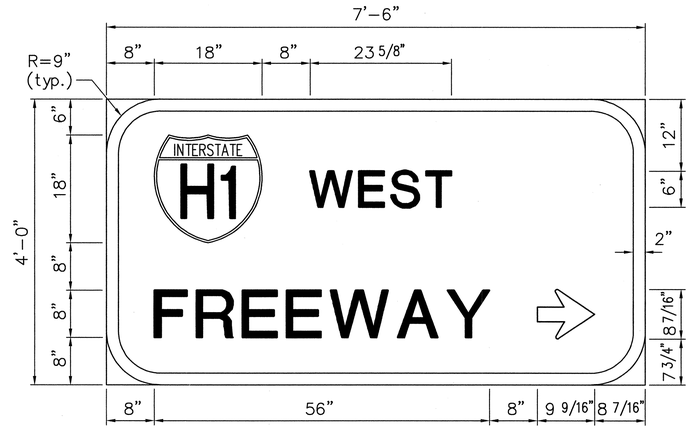
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	153	557



D-11
Not to Scale



D-12
Not to Scale



D-14
Not to Scale

DATE: 03/19/99
SCALE: 1 = 1
FILE: 9815-212

PM: BST
OPER: SHA,*FAI
REVISED: 05/09/99

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

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

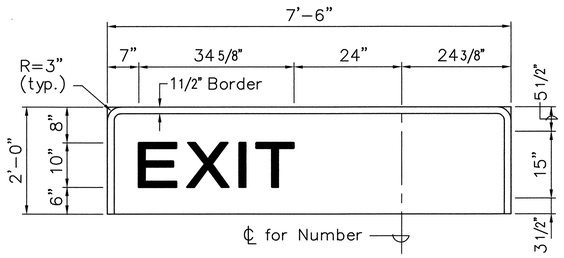
SIGN PANEL DETAILS

INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I. Project No. IM-H1-1(234)

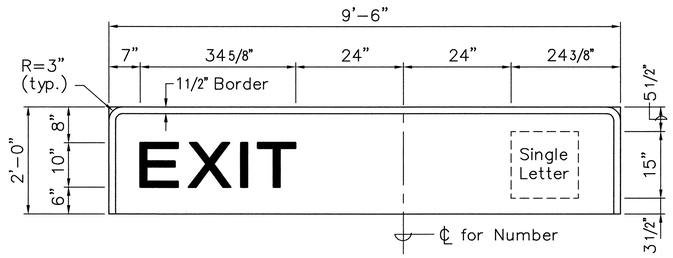
Scale: As Shown Date: June 1, 1999

SHEET NO. M33 OF 35 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	154	557



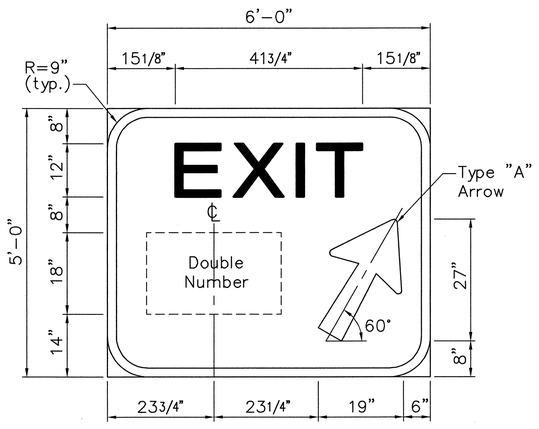
DOUBLE NUMBER



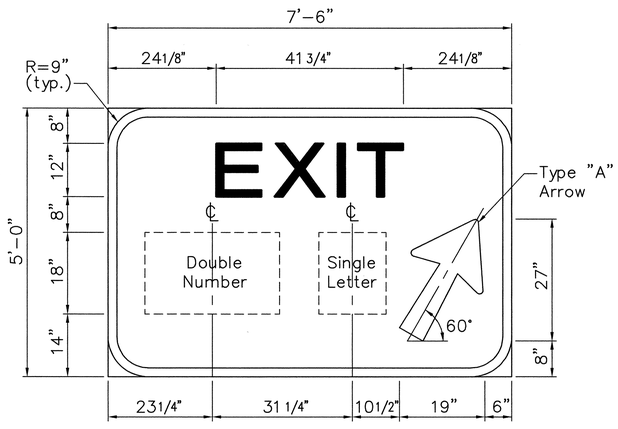
DOUBLE NUMBER
W/ SINGLE LETTER

EXIT NUMBER PANELS

Not to Scale



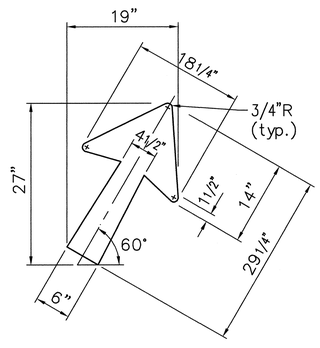
DOUBLE NUMBER



DOUBLE NUMBER
W/ SINGLE LETTER

GORE EXIT SIGNS

Not to Scale



TYPE "A" DIAGONAL
ARROW DETAIL

Not to Scale

EXIT SIGN PANEL NOTES

1. Exit Number Panel Backing may be either extruded or laminated aluminum panels. The face of each Exit Number Panel shall be in line with the face of the Sign panel to which it will be attached.
2. Sign Message shall be lettered in uppercase according to Standard Alphabets for Highway Sign, FHWA, 1966. Use Series "E" letters unless otherwise noted.
3. Contractor shall submit for approval, shop drawing for the attachment of Exit Number Panels to Sign Panels.
4. Corners of Gore Exit Signs shall be trimmed along the border. Corners of Exit Number Panels need not to be trimmed.

DATE: 03/19/99
SCALE: 1 = 1
FILE: 9815-183

PM: BST
OPER: SHA,*FAI
REVISED: 05/09/99

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

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

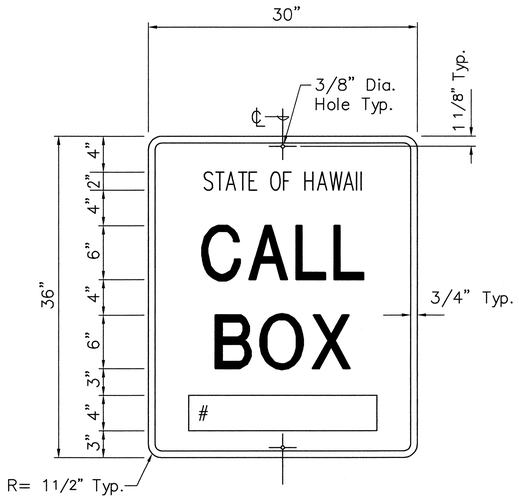
TYPICAL EXIT NUMBER SIGN PANEL LAYOUT

INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I. Project No. IM-H1-1(234)

Scale: As Shown Date: June 1, 1999

SHEET NO. M34 OF 35 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	155	557



NOTES:

1. All lines of lettering shall be centered and shall be the following lettering size and series.

   Line No. 1 – 2" SERIES C
   Line No. 2 – 6" SERIES E
   Line No. 3 – 6" SERIES E

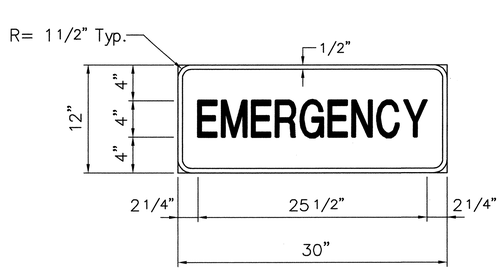
2. Call Box Indentification Numbers shall be 4" SERIES D letters centered in the bottom position of the sign.

3. All signs shall have white reflectorized border and legend on a blue reflectorized background.

4. Modify hole locations to accommodate the 2" offset from edge of shoulder.

CALL BOX IDENTIFICATION SIGN

Not to Scale



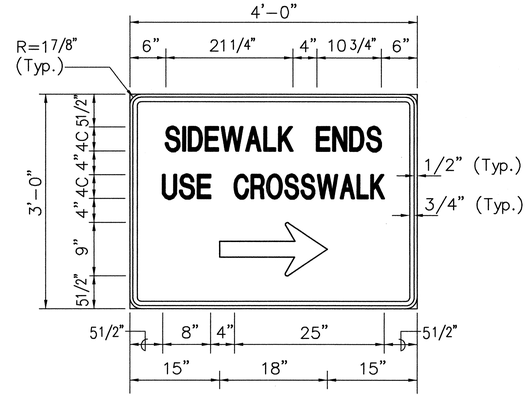
NOTES:

1. Lettering shall be centered and shall be 4" SERIES C letters.

2. All signs shall have white reflectorized border and legend on a blue reflectorized background.

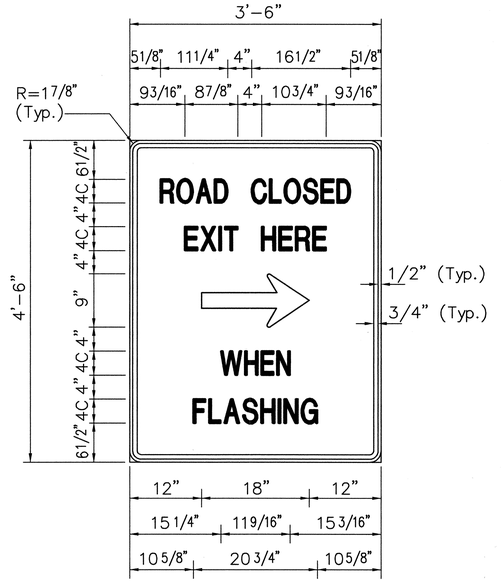
EMERGENCY SIGN

Not to Scale



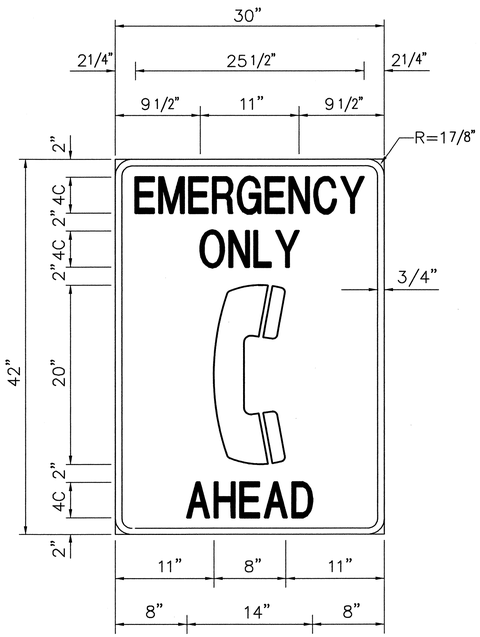
R9–3b (R)(MOD.)

Not to Scale



R11–5 (MOD.)

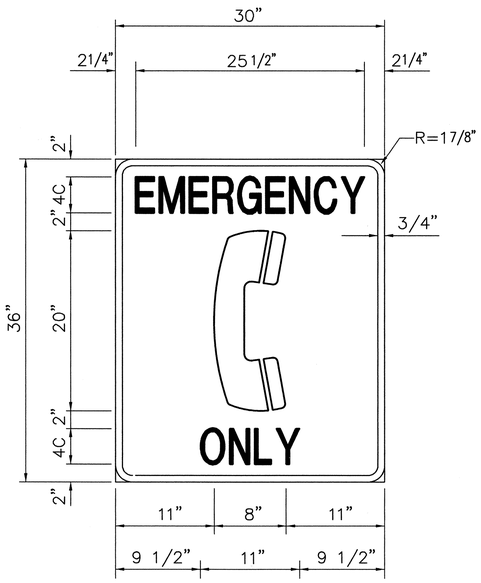
Not to Scale



D9–1b (Mod.)

30"x 42"

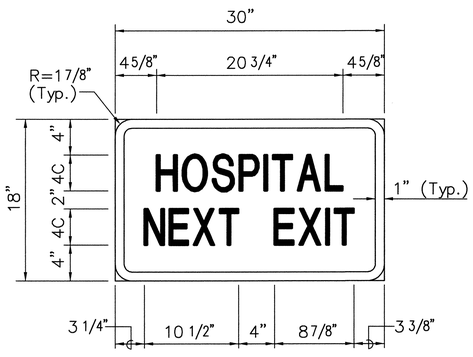
Not to Scale



D9–1b (Mod.)

30"x 36"

Not to Scale



HOSPITAL SIGN

Not to Scale

DATE: 03/19/99
SCALE: 1 = 1
FILE: 9815-210

PM: BST
OPER: SHA,*FAI
REVISED: 05/10/99

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

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

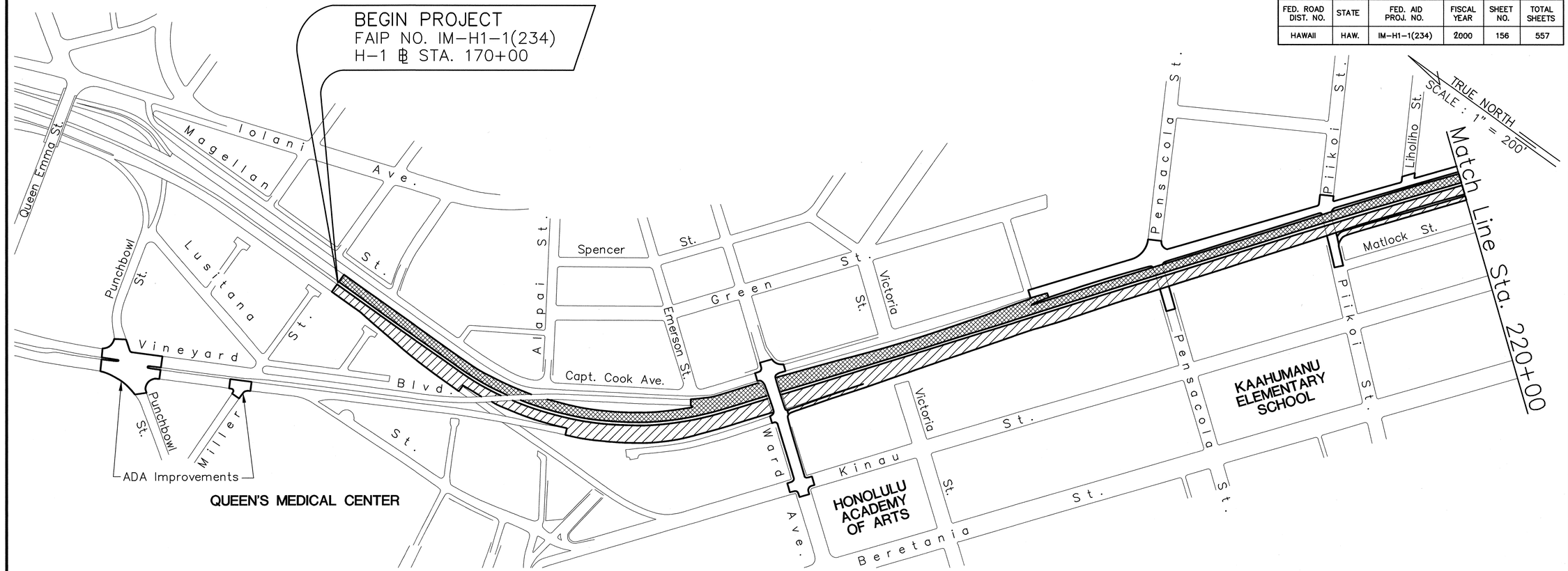
SIGN PANEL DETAILS

INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I. Project No. IM-H1-1(234)

Scale: As Shown Date: June 1, 1999

SHEET NO. M35 OF 35 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	156	557



SUGGESTED CONSTRUCTION SEQUENCE

CONSTRUCTION ACTIVITIES	CALENDAR DAYS 30	60	90	120	150	180	210	240	270	300	330	360
INDEPENDENT PHASES:												
MOBILIZATION, NOTICE TO MOTORISTS, CONSTRUCTION ADVISORY SIGNS	←	→										
PUNAHOU PUMP STATION		←						→				
ALEXANDER STREET ON RAMP/ METCALF STREET (SUNDAY WORK FOR INTERSECTION ONLY)		←	→	←	→							
8-INCH WATER	8" WATER											
PCC PAVEMENT REPAIR				PAV'T								
AC PAVEMENT RESURFACING												
PAVEMENT MARKINGS												
SIGNAGE												
JERSEY BARRIER UPGRADES												
ADA IMPROVEMENTS												
UTILITY MANHOLE ADJUSTMENTS												
STREET MONUMENT ADJUSTMENTS												
						NTP FOR FREEWAY RESURFACING-6/00						
(SEE SHEET F2 FOR CONTINUATION)												

LEGEND

- Resurfacing of H-1 Fwy. Eastbound Lanes
- Resurfacing of H-1 Fwy. Westbound Lanes
- Independant Construction Phases

BENJAMIN S. TANAKA
REGISTERED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CONSTRUCTION PHASING PLAN

INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

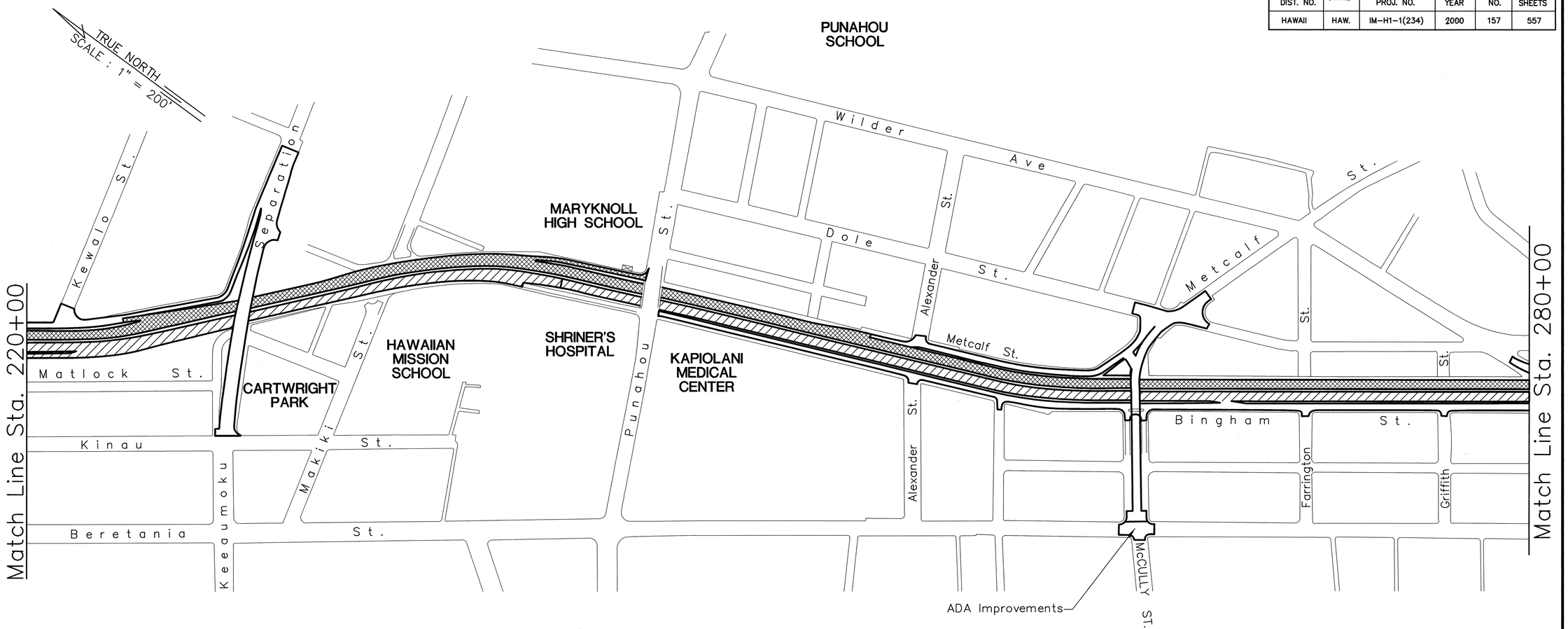
Scale: 1"=200' Date: June 1, 1999

SHEET NO. F1 OF 114 SHEETS

PM: BST
OPER: SHA,CDK,*FAI
REVISED: 05/09/99
DATE: 6/22/98
SCALE: 1" = 200
FILE: 9815-172
ROTATED: 16° 05' 53.23" AT 0,0

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	157	557



PM: BST
OPER: SHA.CDK.*FAI
REVISED: 05/09/99

DATE: 6/22/98
SCALE: 1 = 200
FILE: 9815-173

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

SUGGESTED CONSTRUCTION SEQUENCE

CONSTRUCTION ACTIVITIES	CALENDAR DAYS 30	60	90	120	150	180	210	240	270	300	330	360
McCULLY STREET – BERETANIA STREET TO DOLE STREET (SUNDAY WORK FOR INTERSECTION ONLY)												
24-INCH WATER	24" WATER →											
PAVEMENT RESURFACING					← PAV'T							
PAVEMENT MARKINGS												
SIGNAGE												
ADA IMPROVEMENTS												
UTILITY MANHOLE ADJUSTMENTS												
STREET MONUMENT ADJUSTMENTS												
(SEE SHEET F3 FOR CONTINUATION)												

NTP FOR FREEWAY RESURFACING – 6/00

LEGEND

- Resurfacing of H-1 Fwy. Eastbound Lanes
- Resurfacing of H-1 Fwy. Westbound Lanes
- Independant Construction Phases

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DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

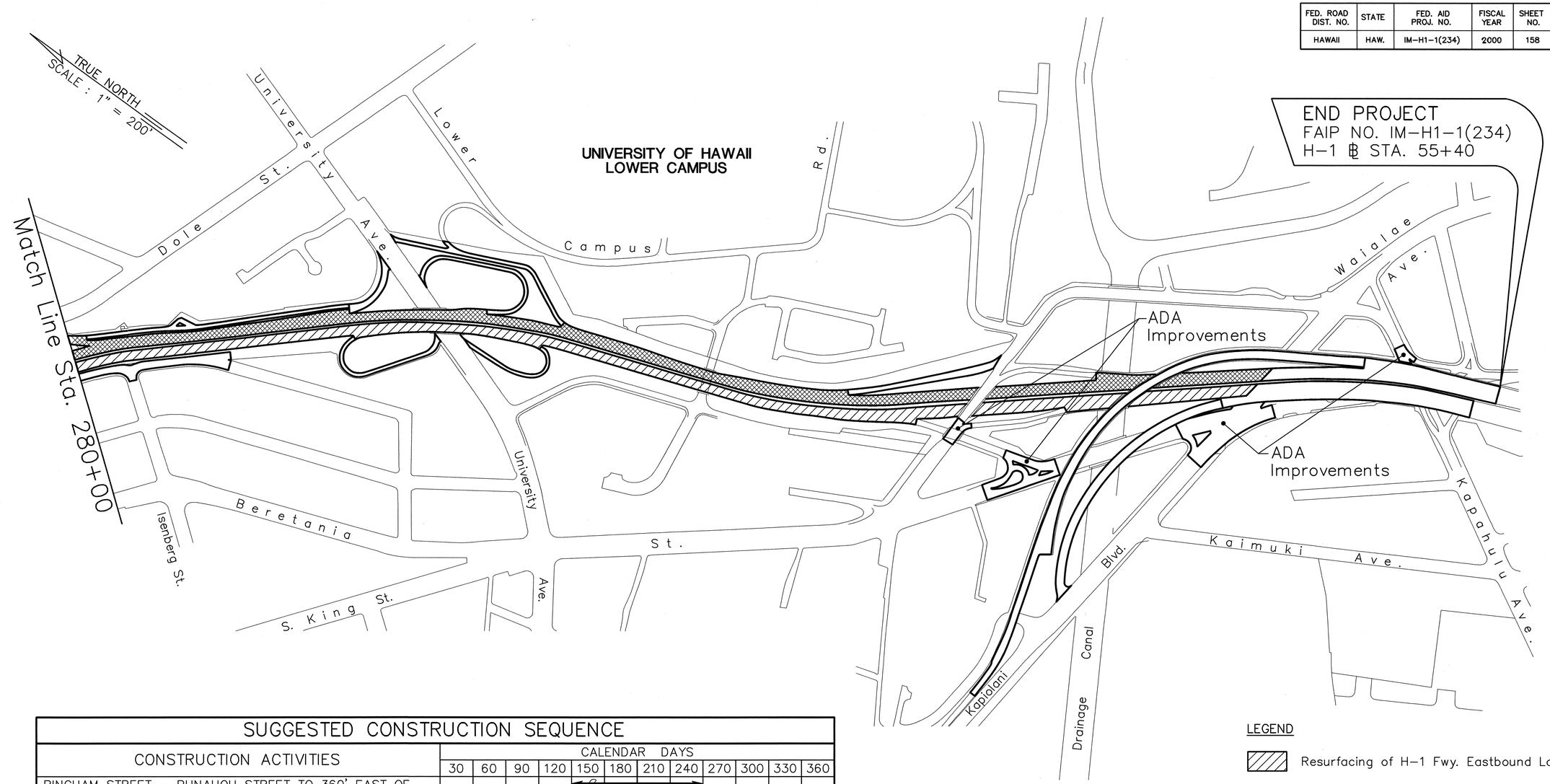
CONSTRUCTION PHASING PLAN

INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

Scale: 1"=200' Date: June 1, 1999

SHEET NO. F2 OF 114 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	158	557



SUGGESTED CONSTRUCTION SEQUENCE

CONSTRUCTION ACTIVITIES	CALENDAR DAYS 30	60	90	120	150	180	210	240	270	300	330	360
BINGHAM STREET – PUNAHOU STREET TO 360' EAST OF ISENBERG STREET (WEEKDAY WORK)					←		→					
8-INCH WATER			8" WATER →									
PAVEMENT RESURFACING/RECONSTRUCTION							←		PAV'T →			
PAVEMENT MARKINGS												
SIGNAGE												
JERSEY BARRIER UPGRADES												
ADA IMPROVEMENTS												
UTILITY MANHOLE ADJUSTMENTS												
STREET MONUMENT ADJUSTMENTS												

NTP FOR FREEWAY RESURFACING - 6/00

(SEE SHEET F4 FOR CONTINUATION)

LEGEND

- Resurfacing of H-1 Fwy. Eastbound Lanes
- Resurfacing of H-1 Fwy. Westbound Lanes
- Independant Construction Phases

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CONSTRUCTION PHASING PLAN

INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

Scale: 1"=200' Date: June 1, 1999

SHEET NO. F3 OF 114 SHEETS

ROTATED: 16° 05' 53.23" AT 0,0
DATE: 6/23/98
SCALE: 1" = 200'
FILE: 9815-174
PM: BST
OPER: SHA,CDK,*FAI
REVISED: 05/09/99

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	159	557

SUGGESTED CONSTRUCTION SEQUENCE (CONTINUED)

CONSTRUCTION ACTIVITIES	CALENDAR DAYS 30	60	90	120	150	180	210	240	270	300	330	360	390	420	450
H-1 FREEWAY EASTBOUND LANES (SUNDAY/NIGHT WORK)															
MANUFACTURING OF PORTABLE CONCRETE BARRIERS	←	—	→	←	—	→									
TEMPORARY STRIPING/PORTABLE CONCRETE BARRIERS							↔								
PAVEMENT RESURFACING							↔ *								
BRIDGE DECK REPAIR – PIIKOI VIADUCT							↔								
BRIDGE EXPANSION JOINT REPAIR – PIIKOI VIADUCT							↔								
MEDIAN BARRIER UPGRADE							↔			↔					
BRIDGE PARAPET UPGRADES							↔			↔					
BRIDGE END POSTS CONNECTIONS							↔								
HIGHWAY LIGHTING (MEDIAN AREA)										↔					
HIGHWAY LIGHTING (OUTSIDE SHOULDER AREAS)										↔					
PAVEMENT MARKINGS										↔					
SIGNAGE										↔					
METAL BEAM GUARD RAILS										↔					
IMPACT ATTENUATOR INSTALLATIONS										↔					
STREET MONUMENT										↔					
WATER CUT AND PLUG								↔ **							
H-1 FREEWAY WESTBOUND LANES (SUNDAY/NIGHT WORK)															
TEMPORARY STRIPING/PORTABLE BARRIER											↔				
PAVEMENT RESURFACING											↔ *				
BRIDGE DECK REPAIR – PIIKOI VIADUCT											↔				
BRIDGE EXPANSION JOINT REPAIR – PIIKOI VIADUCT											↔				
MEDIAN BARRIER UPGRADE (CONTINUATION)											↔			→	
BRIDGE PARAPET UPGRADES											↔			→	
BRIDGE END POSTS CONNECTIONS											↔				
HIGHWAY LIGHTING (MEDIAN AREAS)														↔	
HIGHWAY LIGHTING (OUTSIDE SHOULDER AREAS)														↔	
TRAFFIC SIGNAL LOOP DETECTORS														↔	
PAVEMENT MARKINGS														↔	
SIGNAGE														↔	
METAL BEAM GUARD RAILS														↔	
IMPACT ATTENUATOR INSTALLATIONS														↔	
STREET MONUMENTS														↔	
INDEPENDANT PHASES:															
WARD AVENUE – KINAU STREET TO LUNALILO STREET (WEEKDAY WORK)									8" WATER						
8-INCH WATER MAIN									↔						
PAVEMENT RESURFACING									↔						
BRIDGE PARAPET UPGRADES															
HIGHWAY LIGHTING															
PAVEMENT MARKINGS															
SIGNAGE															
ADA IMPROVEMENTS															
UTILITY MANHOLE ADJUSTMENTS															
STREET MONUMENT ADJUSTMENTS															
(SEE SHEET F5 FOR CONTINUATION)															

NTP FOR FREEWAY RESURFACING-6/00

PAV'T

*8 CONSECUTIVE SUNDAYS EXCLUDING HOLIDAY WEEKENDS

**WATER CUT & PLUG WORK TO BE COORDINATED WITH 8-INCH WATER INSTALLATION ON BINGHAM STREET; TO BE PERFORMED ON A SUNDAY.

PM: BST
OPER: SHA,*FAI,CDK
REVISED: 05/09/99

DATE: 10/15/98
SCALE: 1 = 1
FILE: 9815-102

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

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CONSTRUCTION PHASING PLAN

INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

Scale: None Date: June 1, 1999

SHEET NO. F4 OF 114 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	160	557

SUGGESTED CONSTRUCTION SEQUENCE (CONTINUED)

CONSTRUCTION ACTIVITIES	CALENDAR DAYS 30	60	90	120	150	180	210	240	270	300	330	360	390	420	450
LUNALILO STREET – ERNEST STREET TO KEEAUMOKU STREET INCLUDING PENSACOLA AND PIIKOI STREETS (WEEKDAY WORK)															
8–INCH/12–INCH WATER															
GUTTER RECONSTRUCTION															
PAVEMENT RECONSTRUCTION															
PAVEMENT MARKINGS															
SIGNAGE															
JERSEY BARRIER UPGRADES															
METAL BEAM GUARD RAILS															
ADA IMPROVEMENTS															
UTILITY MANHOLE ADJUSTMENTS															
STREET MONUMENT ADJUSTMENTS															
TRAFFIC SIGNAL LOOP DETECTORS															
KEEAUMOKU STREET – KINAU STREET TO KAIHEE STREET (WEEKDAY WORK)															
12–INCH WATER															
PAVEMENT RESURFACING															
PAVEMENT MARKINGS															
SIGNAGE															
BRIDGE PARAPET UPGRADES															
ADA IMPROVEMENTS															
UTILITY MANHOLE ADJUSTMENTS															
STREET MONUMENT ADJUSTMENTS															
KAPIOLANI BOULEVARD ON/OFF RAMPS (WEEKDAY WORK)															
PAVEMENT RESURFACING															
PAVEMENT MARKINGS															
SIGNAGE															
METAL BEAM GUARD RAILS															
BRIDGE END POSTS CONNECTIONS															
ADA IMPROVEMENTS															
ADA IMPROVEMENTS ON VARIOUS STREETS (WEEKDAY WORK)															
ADA IMPROVEMENTS															
TRAFFIC SIGNAL WORK															
MAGELLAN/CAPT COOKE/KINALAU (WEEKDAY WORK)															
RETAINING WALL UPGRADES															
END POST CONNECTIONS															
METAL BEAM GUARD RAILS															
VINEYARD BOULEVARD ON/OFF RAMPS (WEEKDAY WORK)															
BRIDGE/RETAINING WALL PARAPET UPGRADES															
BRIDGE END POSTS CONNECTIONS															
HIGHWAY LIGHTING															
METAL BEAM GUARD RAILS															
ADA IMPROVEMENTS															
(SEE SHEET F6 FOR CONTINUATION)															

D
PAV'T
8"/12" WATER
8" WATER
PAV'T
NTP FOR FREEWAY RESURFACING – 6/00

PM: BST
OPER: SHA,*FAI,CDK
REVISED: 05/09/99

DATE: 10/15/98
SCALE: 1 = 1
FILE: 9815-103

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

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CONSTRUCTION PHASING PLAN

INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

Scale: None Date: June 1, 1999

SHEET NO. F5 OF 114 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	161	557

SUGGESTED CONSTRUCTION SEQUENCE (CONTINUED)

CONSTRUCTION ACTIVITIES	CALENDAR DAYS																		
	30	60	90	120	150	180	210	240	270	300	330	360	390	420	450	480	510	540	
INDEPENDENT PHASES:																			
KINAU STREET OFF RAMP (WEEKDAY WORK)													←	→					
RETAINING WALL END POST CONNECTIONS																			
HIGHWAY LIGHTING																			
METAL BEAM GUARD RAILS																			
WILDER AVENUE – WILDER AVENUE OFF RAMP TO UNIVERSITY AVENUE ON RAMP & RAMP U-8 (SUNDAY WORK)													12" WATER		←	→	PAV'T		
12-INCH WATER															←	→			
PAVEMENT RECONSTRUCTION																←	→		
PAVEMENT MARKINGS																			
SIGNAGE																			
JERSEY BARRIER UPGRADES																			
ADA IMPROVEMENTS																			
UTILITY MANHOLE ADJUSTMENTS																			
STREET MONUMENT ADJUSTMENTS																			
UNIVERSITY AVENUE ON/OFF RAMPS (EB) (U-1 & U-3) (SUNDAY WORK)																←	→		
PAVEMENT RESURFACING																			
PAVEMENT MARKINGS																			
SIGNAGE																			
BRIDGE PARAPET UPGRADES																			
BRIDGE END POSTS CONNECTIONS																			
METAL BEAM GUARD RAILS																			
ADA IMPROVEMENTS																			
UNIVERSITY AVENUE ON/OFF RAMPS (WB) (U-5 & U-6) (SUNDAY WORK)																	←	→	
PAVEMENT RESURFACING																			
PAVEMENT MARKINGS																			
SIGNAGE																			
METAL BEAM GUARD RAILS																			
OLD WAIALAE ROAD/OLD WAIALAE ROAD ON/OFF RAMPS (EB & WB) (SUNDAY WORK)																		←	→
PAVEMENT RESURFACING																			
PAVEMENT MARKINGS																			
SIGNAGE																			
METAL BEAM GUARD RAILS																			
IMPACT ATTENUATOR INSTALLATIONS																			

NTP FOR FREEWAY RESURFACING - 6/00

PM: BST
OPER: *SHA,FAI,CDK
REVISED: 06/17/99

DATE: 10/15/98
SCALE: 1 = 1
FILE: 9815-104

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

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CONSTRUCTION PHASING PLAN

INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

Scale: None Date: June 1, 1999

SHEET NO. F6 OF 114 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	162	557

GENERAL NOTES FOR TRAFFIC CONTROL PLAN

1. The Permittee Shall Make Minor Adjustments at Ramp Junctions, Bridges, Structures, Etc., to Fit Field Conditions.
2. Cones or Delineators Shall be Extended to a Point Where They are Visible to Approaching Traffic.
3. Traffic Control Devices Shall be Installed Such That the Sign or Device Farthest From the Work Area Shall be Placed First. The Others Shall Then be Placed Progressively Toward the Work Area.
4. Regulatory and Warning Signs Within the Construction Zone that are in Conflict with the Traffic Control Plans Shall be Removed or Covered.
5. Flaggers and/or Police officers Shall be in Sight of Each Other or in direct Communication at all Times.
6. When Required by the Engineer, the Contractor Shall install a Flashing Arrow Signal as Shown on the Traffic Control Plans.
7. Sign Spacings (L), Taper Lengths (T) and Spacing of Cones or Delineators Shall be as Shown in Table 1, Unless Otherwise Noted on the Traffic Control Plans.
8. All Freeway Traffic Lanes Shall be a Minimum of 11 Feet Wide. Ramps and Other Roadway Lanes Shall be a Minimum of 10 Feet Wide.
9. All Construction Warning Signs Shall be Promptly Removed or Covered Whenever the Message is not Applicable or not in Use.
10. The Backs of All Signs Used for Traffic Control Shall be Appropriately Covered to Preclude the Display of Inapplicable Sign Messages (i.e., When Signs Have Messages on Both Faces).
11. At the End of Each Day's Work or as Soon as the Work is Completed, the Permittee 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.
12. Replace Permanent Pavement Markings and Traffic Signs Upon Completion of Each Phase of Work.
13. Existing Conflicting Pavement Markings Shall be Removed and Temporary Markings Shall be Installed Before Traffic Patterns are Changed. After Completion of the Work, Temporary Markings Shall be Removed.
14. Cones and Signs for Night Work Shall be Retroreflective.

TRAFFIC CONTROL PLAN CONCEPTS:

1. Freeway Pavement Resurfacing and Reconstruction Work shall Primarily Occur on Sundays Only from 8:00 AM to 12:00 Midnight. The Intent is to Finish Paving a Section of the Freeway Each Sunday and Move on to the Next Section the Following Sunday.

   A. Initial Two-Lane (Left or Right Lanes) Closure from 8:00 AM to 9:00 AM. It is Anticipated that a Shift of the Lane Closure to the Other Half of the Freeway will Occur to Complete Paving a Section of the Freeway on any Given Sunday.

   B. Cold Planing and Pavement Breaking from 9:00 AM to 10:00 PM. Note that Cold Planing and Pavement Breaking will not be Allowed to Occur at any Other Time.

   C. Paving and Rolling from 9:00 AM to 12:00 Midnight. If in Case Paving is not Completed, Paving can Continue Through Monday Morning; Freeway Lanes to be Re-Opened to Traffic by 4:30 AM.

   D. If in Case Paving is not Completed by Monday Morning, Paving will Recommence on Monday Night Starting from 10:30 PM and Continue Through Tuesday Morning; Freeway Lanes to be Re-Opened to Traffic by 4:30 AM. This Cycle to Continue Until all Paving Work Within a Given Section of the Freeway is Completed Before the Following Sunday.

   All Other Non-Paving Work on the Freeway can Occur Simultaneously with the Paving Work on Sundays from 9:00 AM to 12:00 Midnight and on Week Nights from 10:30 PM to 4:30 AM, Excluding Holidays; Such Work can also Occur Independently on Week Nights from 10:30 PM to 4:30 AM, Excluding Holidays.

2. Work on Certain Ramps, Frontage Roads and Cross Streets are Indicated Under Independent Phases.

   A. Unless Otherwise Indicated, Work on the Frontage Roads and Cross Streets Shall be Scheduled During the Weekday Hours from 9:00 AM to 3:00 PM, Mondays Thru Fridays, Except Holidays. Unless Otherwise Indicated, Only Single Lane Closures Will be Allowed in Each Direction.

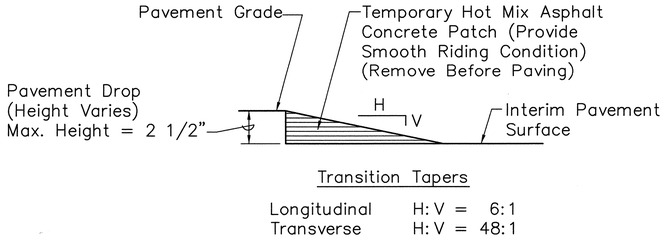
   B. Work on Certain Ramps May Require Full Ramp Closures and will be Scheduled for Sunday Work, Where Indicated.

3. Lane Closures Shall be Allowed Only to the Extent of Accomplishing Each Day (or Night) Work and Shall be Subject to the Approval of the Engineer.

TABLE I FOR TRAFFIC CONTROL PLAN

Posted Speed Limit (M.P.H.)	Sign Spacing (D) (Feet)	Taper Length (T) (Feet)		Longtitudinal Buffer Space (B) (Feet)	Spacing of Cones or Delineators (Feet)		
		⊛W = 12' or Less	⊛W = Greater Than 12'		Taper	Tangent	Work Area
20	250	200	Wx17	35	20	20	10
25	250	200	Wx17	55	25	25	10
30	250	250	Wx20	85	30	30	10
35	250	250	Wx20	120	35	35	10
40	500	350	Wx30	170	40	40	10
45	500	550	Wx45	220	45	45	10
50	1000	600	Wx50	280	50	50	10
55	1000	700	Wx55	335	55	55	10

⊛W = Width of Lane, Shoulder or Offset



Transition Tapers

Longitudinal	H:V = 6:1
Transverse	H:V = 48:1

TRANSITION TAPER
Not to Scale

When Removal of Existing Pavement is Required on Roadways Open to Traffic, the Contractor Shall Remove the Full Travelway width of Roadway Each Day so as Not to Leave a Hazardous Longitudinal Pavement Drop Between Lane Passes of the Removed Pavement. The Engineer May Allow the Contractor to Construct a Transition Taper at the Longitudinal Pavement Drop so as Not to Leave a Vertical face. The Transition Taper Shall be Along the Lane Line and Should Produce a Wedge with a Minimum Slope of 6:1. The Transverse Taper Should Produce a Wedge with a Minimum Slope of 48:1. The Contractor Shall Submit the Type of Materials and Construction of the Transition Taper for Acceptance by the Engineer. The Contractor Shall Remove and Dispose of the Removed Material. This Work Shall be Incidental to the Various Asphaltic Concrete Pavement Items.

LEGEND:

- Work Zone
- Cone
- Sign
- Direction of Travel
- Police Officer
- Flashing Arrow Board
- Message Board
- Flagman or Policeman
- Flag Tree
- Type III Barricade

BENJAMIN S. TANAKA ★ REGISTERED PROFESSIONAL ENGINEER No.2055-C ★ HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN
GENERAL NOTES

INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

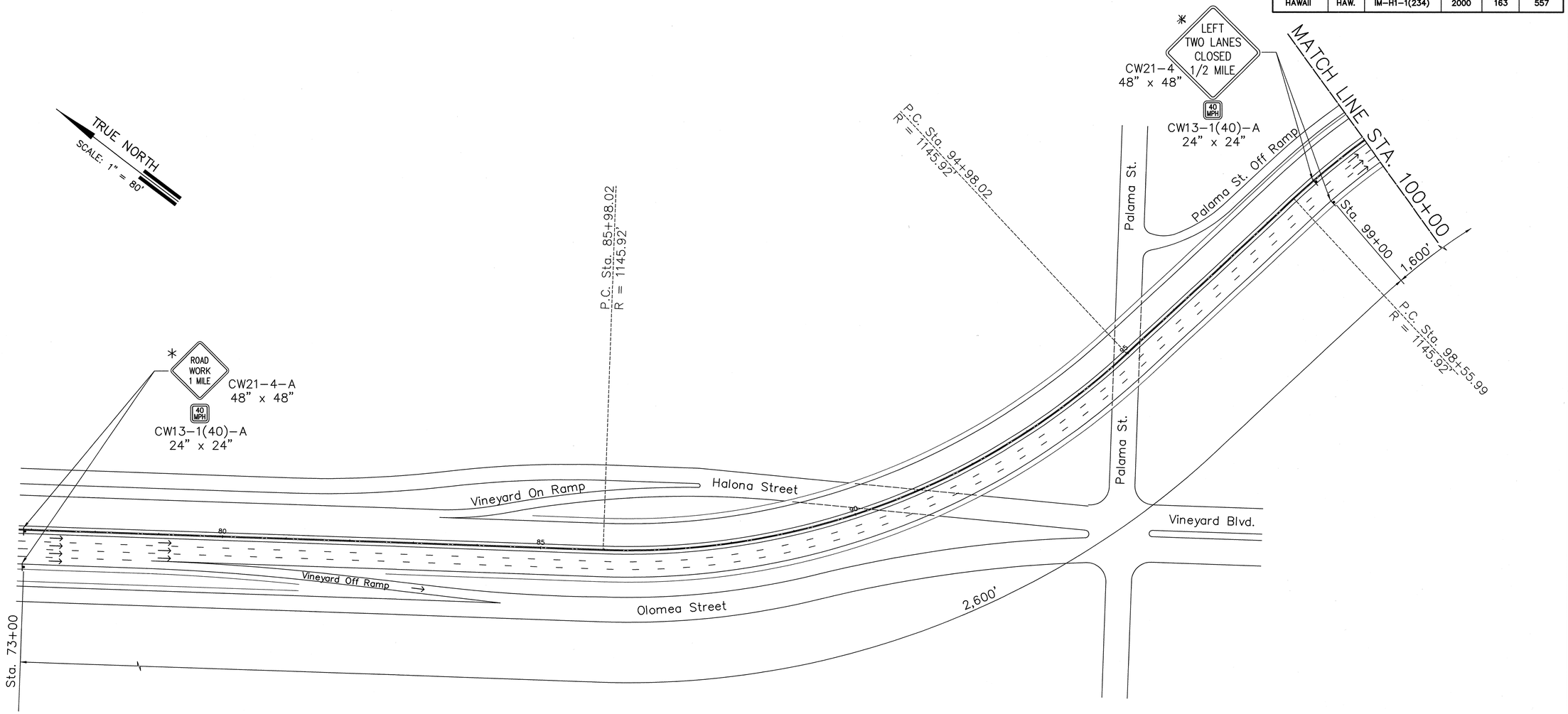
Scale: 1"=200' Date: June 1, 1999

SHEET NO. F7 OF 114 SHEETS

PM: BST
OPER: SHA,*FAI
REVISED: 07/14/99
DATE: 10/15/98
SCALE: 1 = 1
FILE: 9815-101

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	163	557



DATE: 10/16/98
SCALE: 1 = 80
FILE: 9815-105

PM: BST
OPER: SHA.*FAI
REVISED: 07/14/99

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

Estimated Quantities:

Pay Items:

Construction Sign with 2 Posts Marked with Asterisk (*) – 4 Each

Incidental Items:

Traffic Control Signs/Devices Without Asterisk (*)

* Construction Signs with 2 Posts Marked with Asterisk (*): To be Installed at the Start of Left Lane Closed and to be Removed at the End of Phase B, Right Lane Closed. To be Paid Under Item 621.7200, Construction Warning Sign with 2 Posts – H-1 Freeway. All Other Traffic Control Signs/Devices Without Asterisk (*) are Incidental.

BENJAMIN S. TANAKA
REGISTERED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TCP FOR PARTIAL FWY. CLOSURE (EB)

LEFT LANES CLOSED

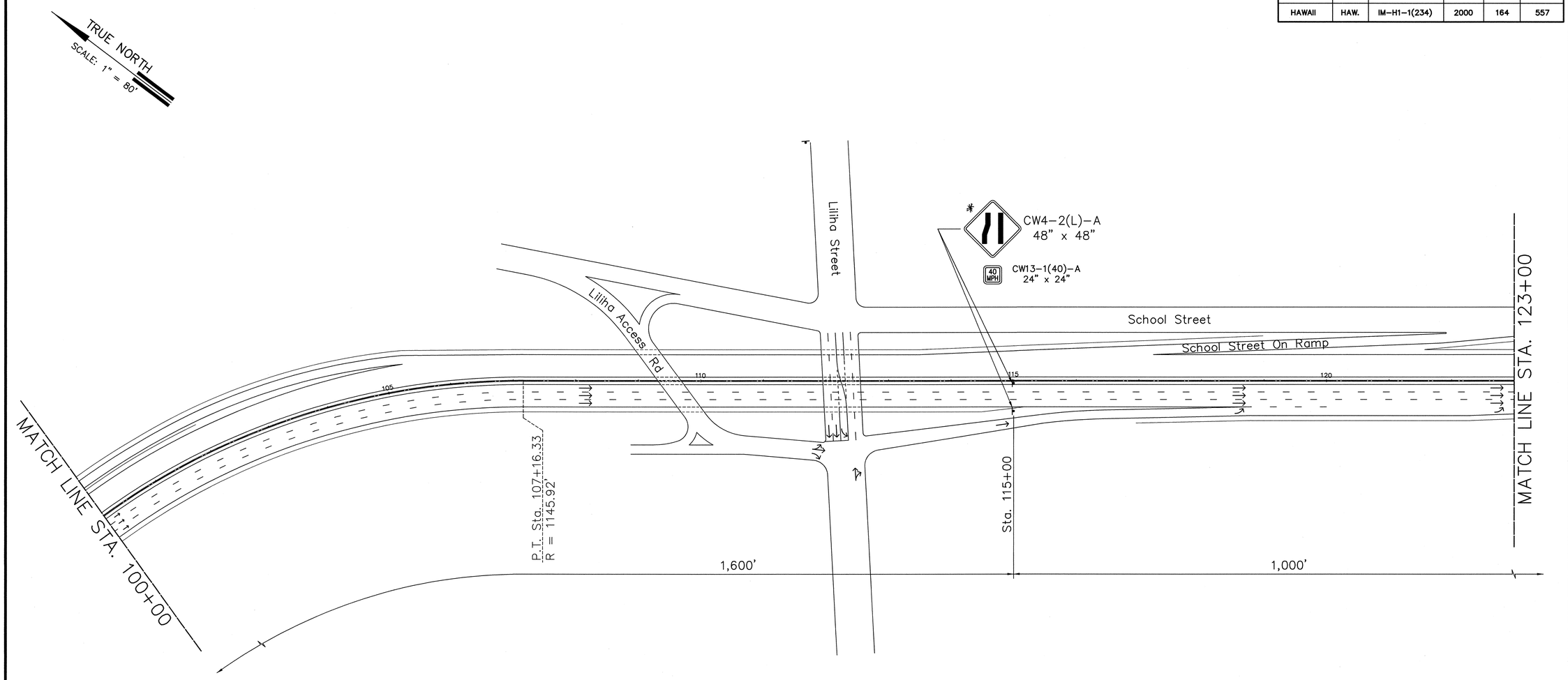
INTERSTATE ROUTE H-1 RESURFACING

Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

Scale: 1"=80' Date: June 1, 1999

SHEET NO. F8 OF 114 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	164	557



DATE: 10/16/98
SCALE: 1 = 80
FILE: 9815-106

PM: BST
OPER: SHA,*FAI
REVISED: 07/14/99

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

Estimated Quantities:

Pay Items:

Construction Sign with 2 Posts Marked with Asterisk (*) – 2 Each

Incidental Items:

Traffic Control Signs/Devices Without Asterisk (*)

* Construction Signs with 2 Posts Marked with Asterisk (*):
To be Installed at the Start of Left Lane Closed and to be Removed at the End of Phase B, Right Lane Closed.
To be Paid Under Item 621.7200, Construction Warning Sign with 2 Posts – H-1 Freeway. All Other Traffic Control Signs/Devices Without Asterisk (*) are Incidental.

BENJAMIN S. TANAKA
REGISTERED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TCP FOR PARTIAL FWY. CLOSURE (EB)

LEFT LANES CLOSED

INTERSTATE ROUTE H-1 RESURFACING

Vic. of Punchbowl Off Ramp to Kapiolani IC

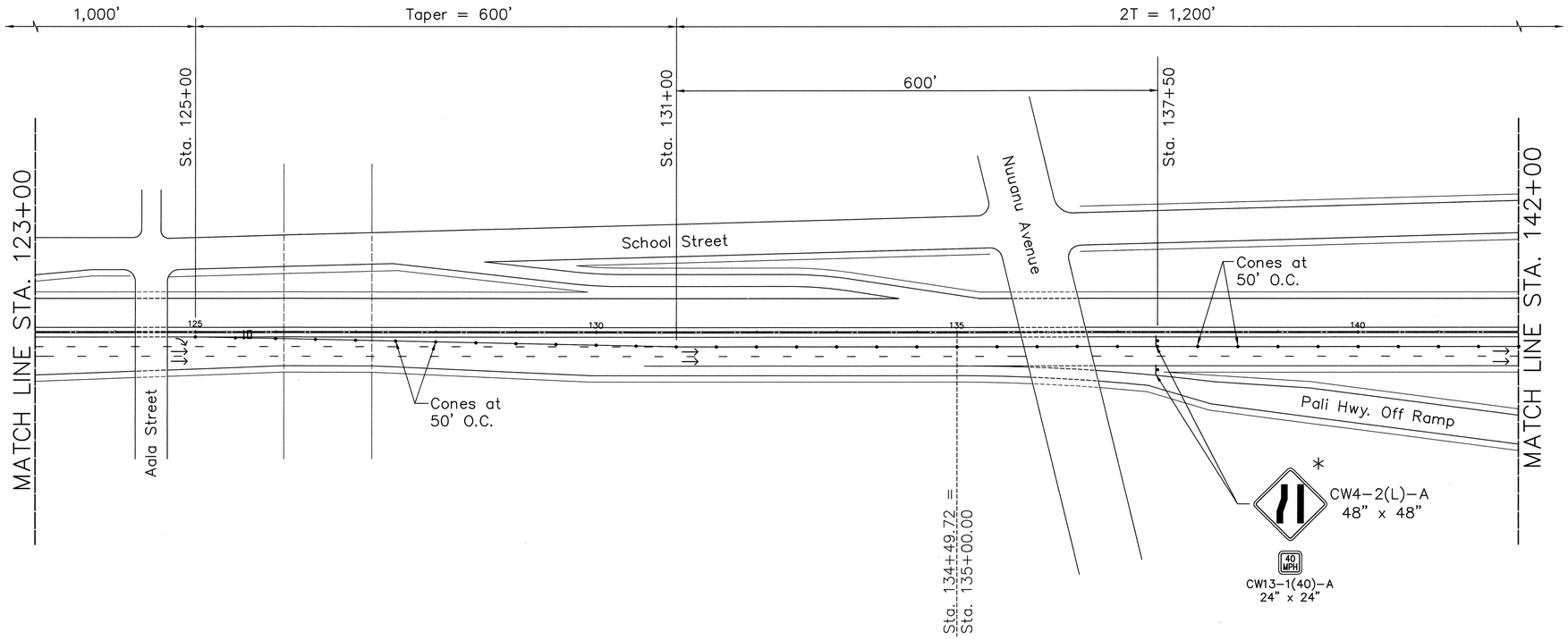
F.A.I Project No. IM-H1-1(234)

Scale: 1"=80' Date: June 1, 1999

SHEET NO. **F9** OF **114** SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	165	557

TRUE NORTH
SCALE: 1" = 80'



PM: BST
OPER: SHA,*FAI
REVISED: 07/14/99

DATE: 10/16/98
SCALE: 1 = 80
FILE: 9815-107

ORIGINAL PLAN
NOTEBOOK
No.

SURVEY PLOTTED BY ____ DATE
DRAWN BY ____ "
TRACED BY ____ "
DESIGNED BY ____ "
QUANTITIES BY ____ "
CHECKED BY ____ "

Estimated Quantities:

Pay Items:

Construction Sign with 2 Posts Marked with Asterisk (*) – 2 Each

Incidental Items:

Traffic Control Signs/Devices Without Asterisk (*)

* Construction Signs with 2 Posts Marked with Asterisk (*): To be Installed at the Start of Left Lane Closed and to be Removed at the End of Phase B, Right Lane Closed. To be Paid Under Item 621.7200, Construction Warning Sign with 2 Posts – H-1 Freeway. All Other Traffic Control Signs/Devices Without Asterisk (*) are Incidental.

BENJAMIN S. TANAKA
REGISTERED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TCP FOR PARTIAL FWY. CLOSURE (EB)

LEFT LANES CLOSED

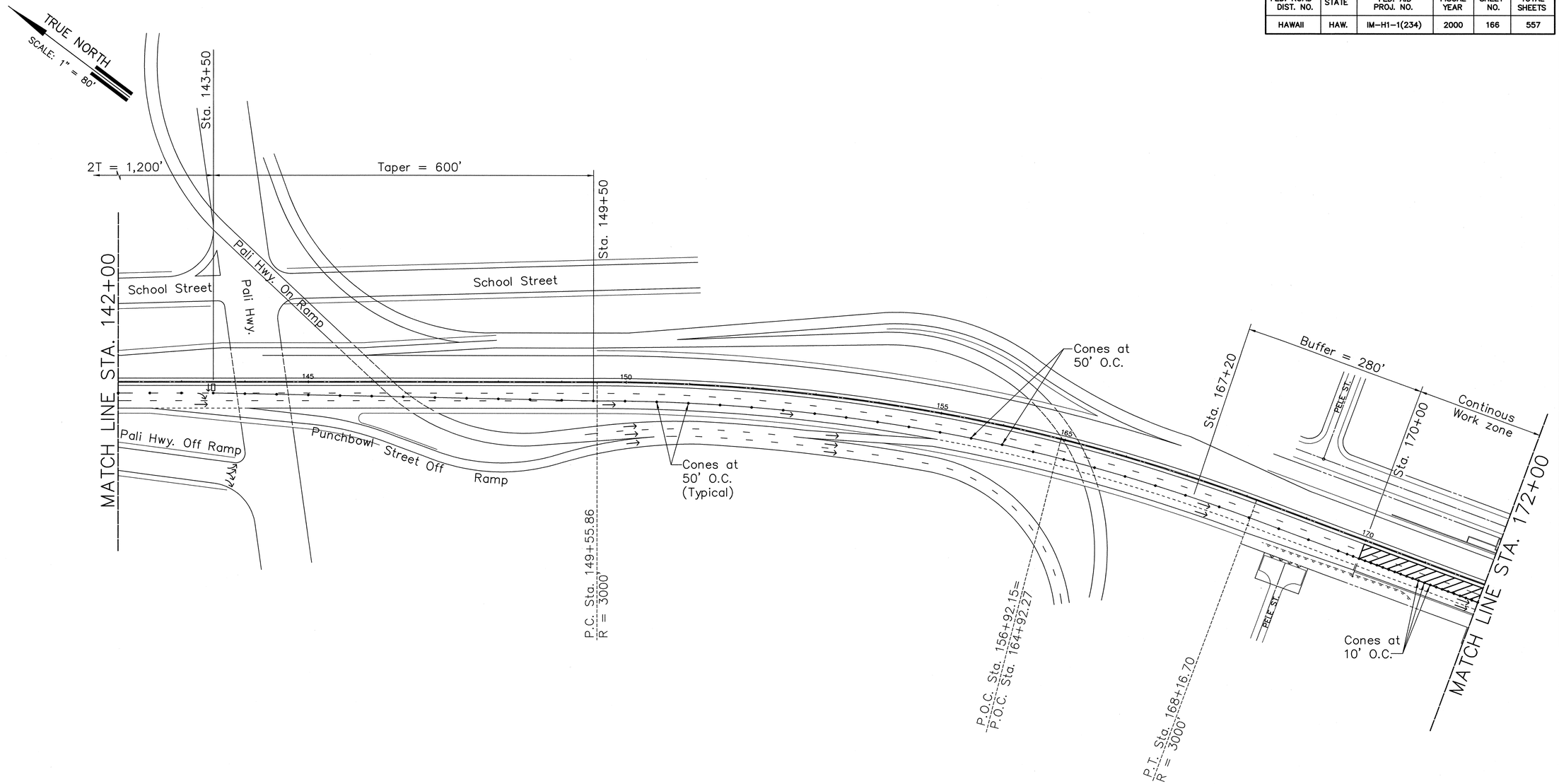
INTERSTATE ROUTE H-1 RESURFACING

Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

Scale: 1"=80' Date: June 1, 1999

SHEET NO. F10 OF 114 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	166	557



PM: BST
OPER: SHA,*FAI
REVISED: 07/14/99

DATE: 10/16/98
SCALE: 1 = 80
FILE: 9815-108

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

Estimated Quantities:

Pay Items:

None

Incidental Items:

Traffic Control Signs/Devices Without Asterisk (*)

BENJAMIN S. TANAKA
REGISTERED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TCP FOR PARTIAL FWY. CLOSURE (EB)

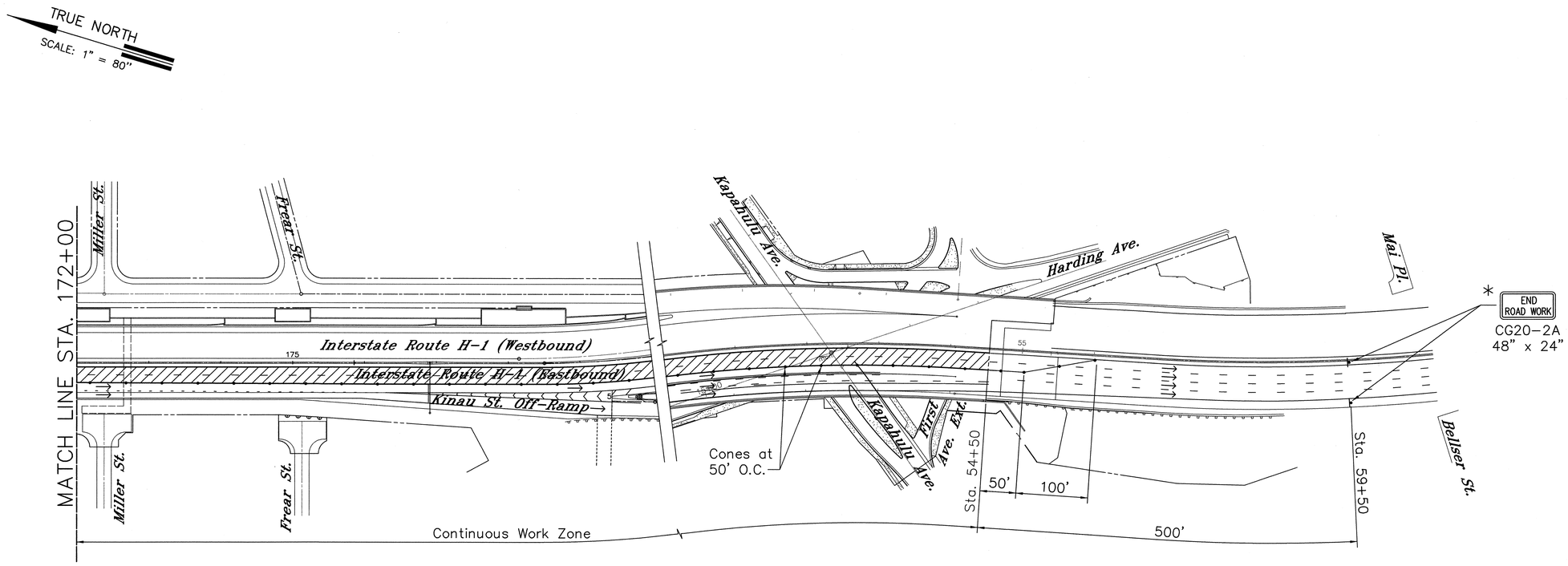
LEFT LANES CLOSED

INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

Scale: 1"=80' Date: June 1, 1999

SHEET NO. F11 OF 114 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	167	557



Estimated Quantities:

Pay Items:

Construction Sign with 2 Posts Marked with Asterisk (*) – 2 Each

Incidental Items:

Traffic Control Signs/Devices Without Asterisk (*)

* Construction Signs with 2 Posts Marked with Asterisk (*):
To be Installed at the Start of Left Lane Closed and to be Removed at the End of Phase B, Right Lane Closed. To be Paid Under Item 621.7200, Construction Warning Sign with 2 Posts – H-1 Freeway. All Other Traffic Control Signs/Devices Without Asterisk (*) are Incidental.

BENJAMIN S. TANAKA
REGISTERED PROFESSIONAL ENGINEER
No.2055-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TCP FOR PARTIAL FWY. CLOSURE (EB)

LEFT LANES CLOSED

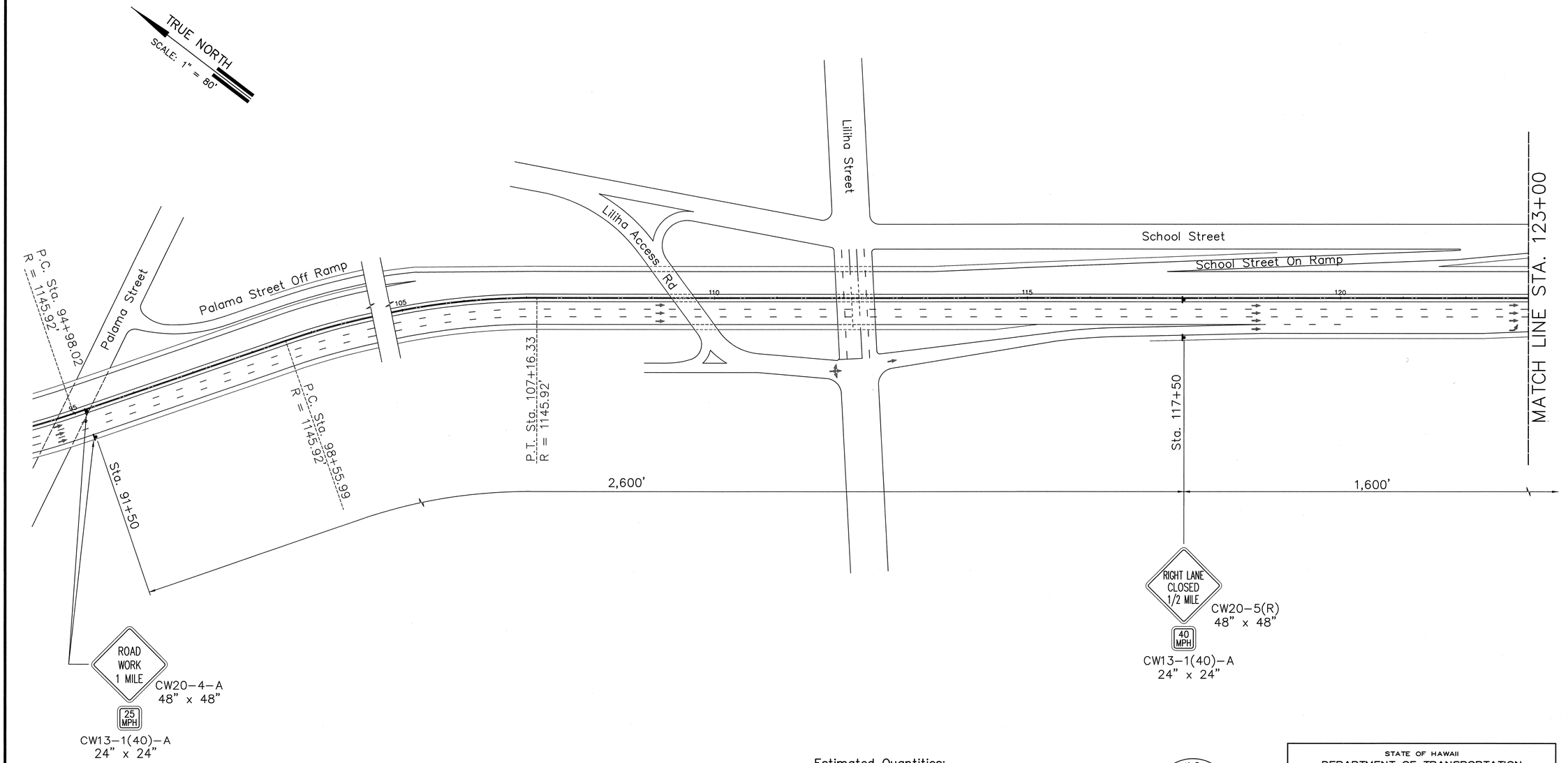
INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)
Scale: 1"=40' Date: June 1, 1999

SHEET NO. F12 OF 114 SHEETS

DATE: 10/19/98
SCALE: 1 = 80
FILE: 9815-113
PM: BST
OPER: SHA,+FAI
REVISED: 07/14/99

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	168	557



PM: BST
OPER: SHA,*FAI
REVISED: 07/14/99

DATE: 10/19/98
SCALE: 1 = 80
FILE: 9815-117

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

Estimated Quantities:

Pay Items:

None

Incidental Items:

Traffic Control Signs/Devices Without Asterisk (*)

BENJAMIN S. TANAKA
REGISTERED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TCP FOR PARTIAL FWY. CLOSURE (EB)

RIGHT LANES CLOSED

INTERSTATE ROUTE H-1 RESURFACING

Vic. of Punchbowl Off Ramp to Kapiolani IC

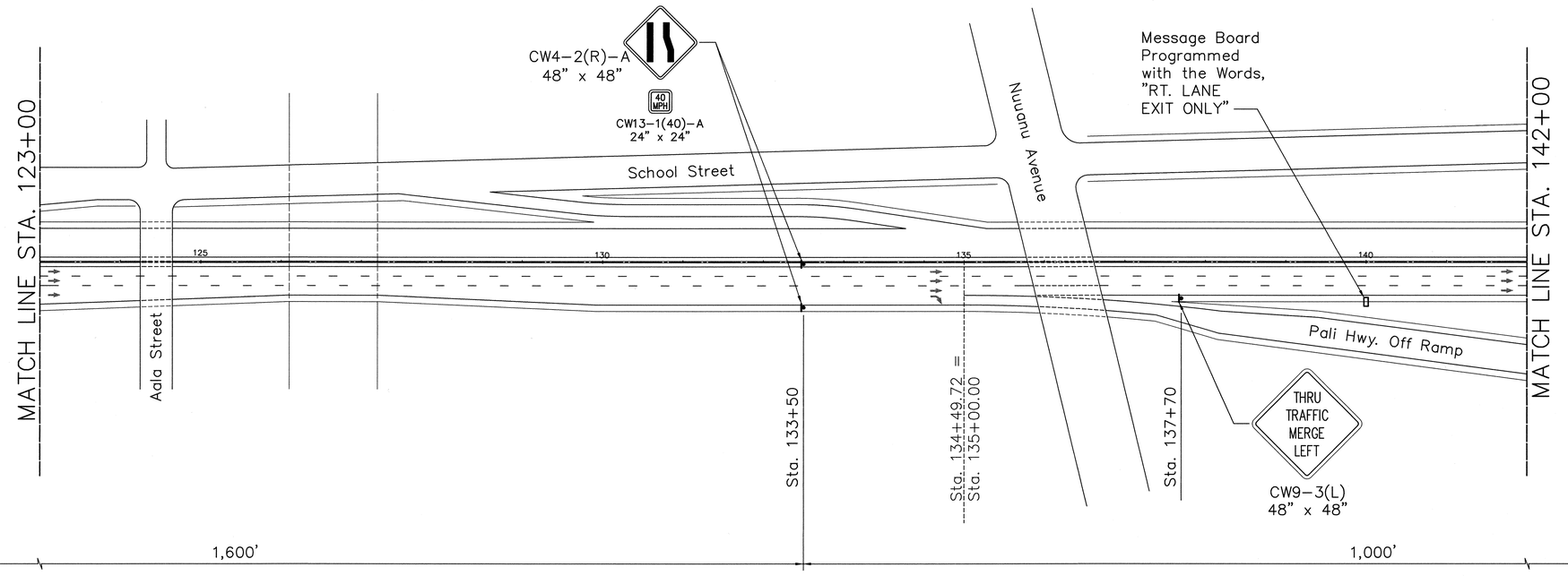
F.A.I Project No. IM-H1-1(234)

Scale: 1"=80' Date: June 1, 1999

SHEET NO. F13 OF 114 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	169	557

TRUE NORTH
SCALE: 1" = 80'



PM: BST
OPER: SHA,*FAI
REVISED: 07/14/99
DATE: 10/21/98
SCALE: 1 = 80
FILE: 9815-118

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

Estimated Quantities:

Pay Items:

None

Incidental Items:

Traffic Control Signs/Devices
Without Asterisk (*)

BENJAMIN S. TANAKA
REGISTERED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION

Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

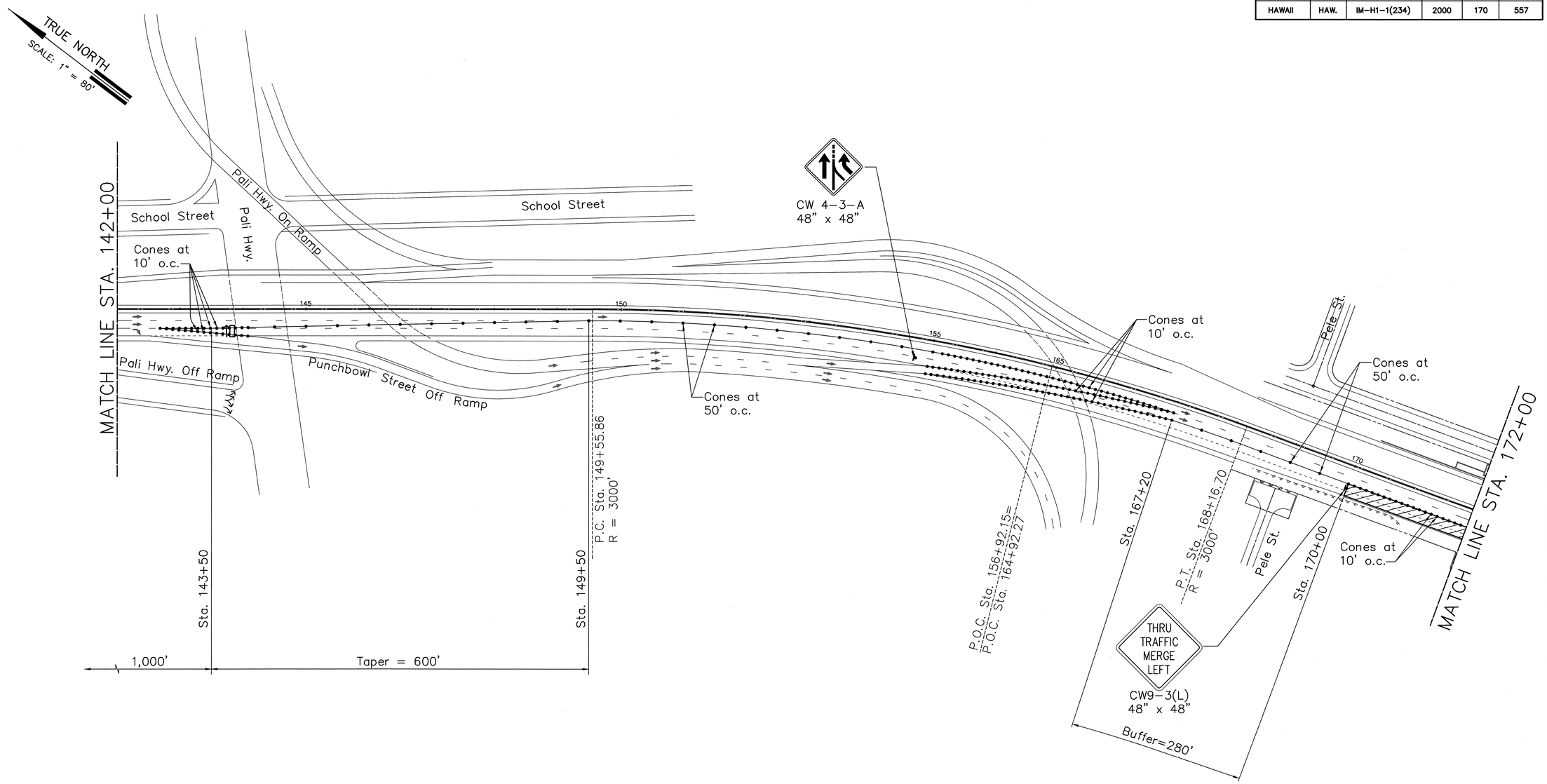
TCP FOR PARTIAL FWY. CLOSURE (EB)
RIGHT LANES CLOSED
INTERSTATE ROUTE H-1 RESURFACING

Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

Scale: 1"=80' Date: June 1, 1999

SHEET NO. **F14** OF **114** SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	170	557



DATE: 10/19/98 PM: BST
SCALE: 1 = 80 OPER: SHA,*FAI
FILE: 9815-119 REVISED: 07/14/99

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

Estimated Quantities:

Pay Items:

None

Incidental Items:

Traffic Control Signs/Devices
Without Asterisk (*)

BENJAMIN S. TANAKA
REGISTERED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION

Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TCP FOR PARTIAL FWY. CLOSURE (EB)

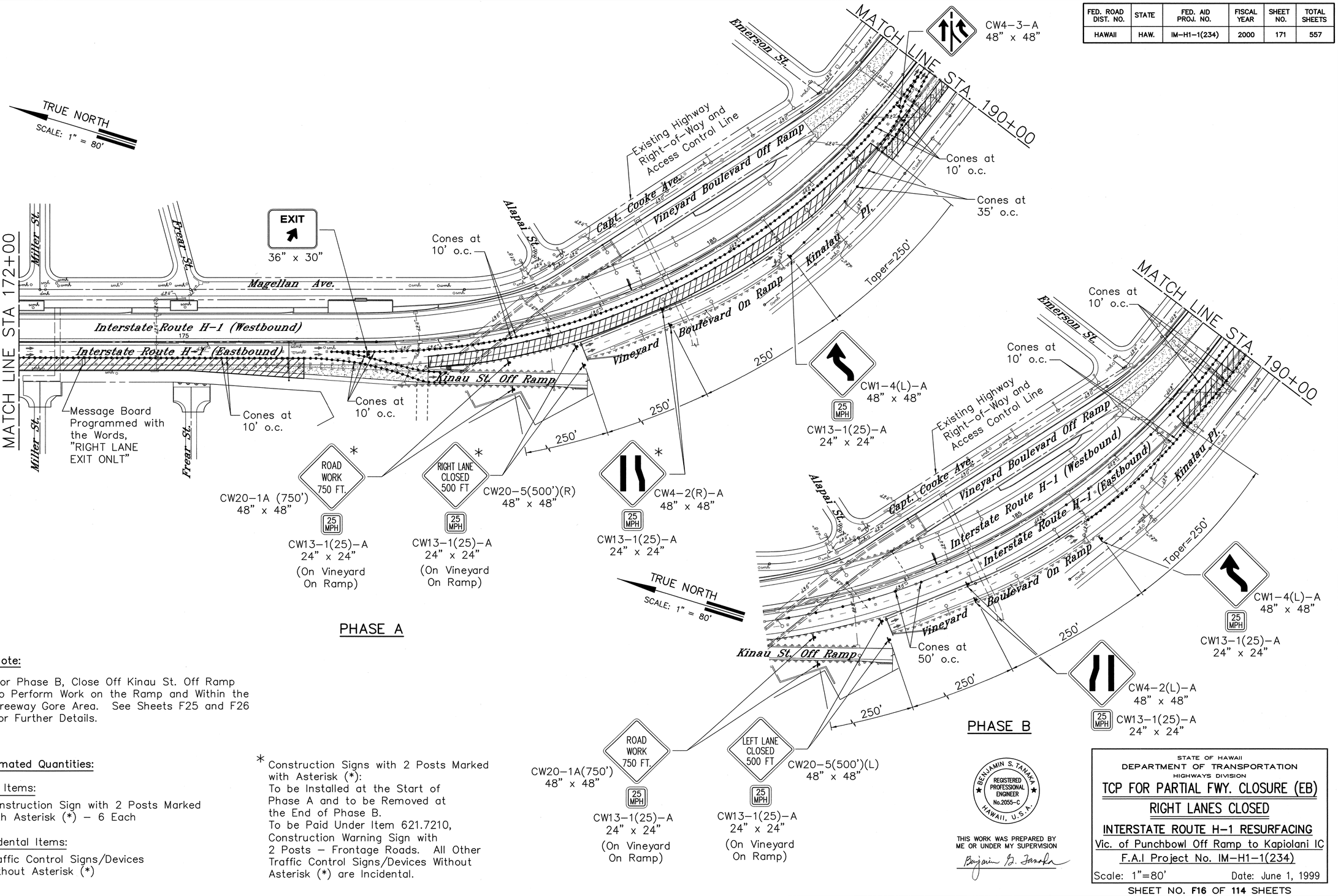
RIGHT LANES CLOSED

INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

Scale: 1"=80' Date: June 1, 1999

SHEET NO. F15 OF 114 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	171	557



DATE: 10/19/98
SCALE: 1 = 80
FILE: 9815-115

PM: BST
OPER: SHA,*FAI
REVISED: 07/14/99

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

Note:

For Phase B, Close Off Kinau St. Off Ramp to Perform Work on the Ramp and Within the Freeway Gore Area. See Sheets F25 and F26 for Further Details.

Estimated Quantities:

Pay Items:

Construction Sign with 2 Posts Marked with Asterisk (*) – 6 Each

Incidental Items:

Traffic Control Signs/Devices Without Asterisk (*)

* Construction Signs with 2 Posts Marked with Asterisk (*):
To be Installed at the Start of Phase A and to be Removed at the End of Phase B.
To be Paid Under Item 621.7210, Construction Warning Sign with 2 Posts – Frontage Roads. All Other Traffic Control Signs/Devices Without Asterisk (*) are Incidental.

BENJAMIN S. TANAKA
REGISTERED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TCP FOR PARTIAL FWY. CLOSURE (EB)

RIGHT LANES CLOSED

INTERSTATE ROUTE H-1 RESURFACING

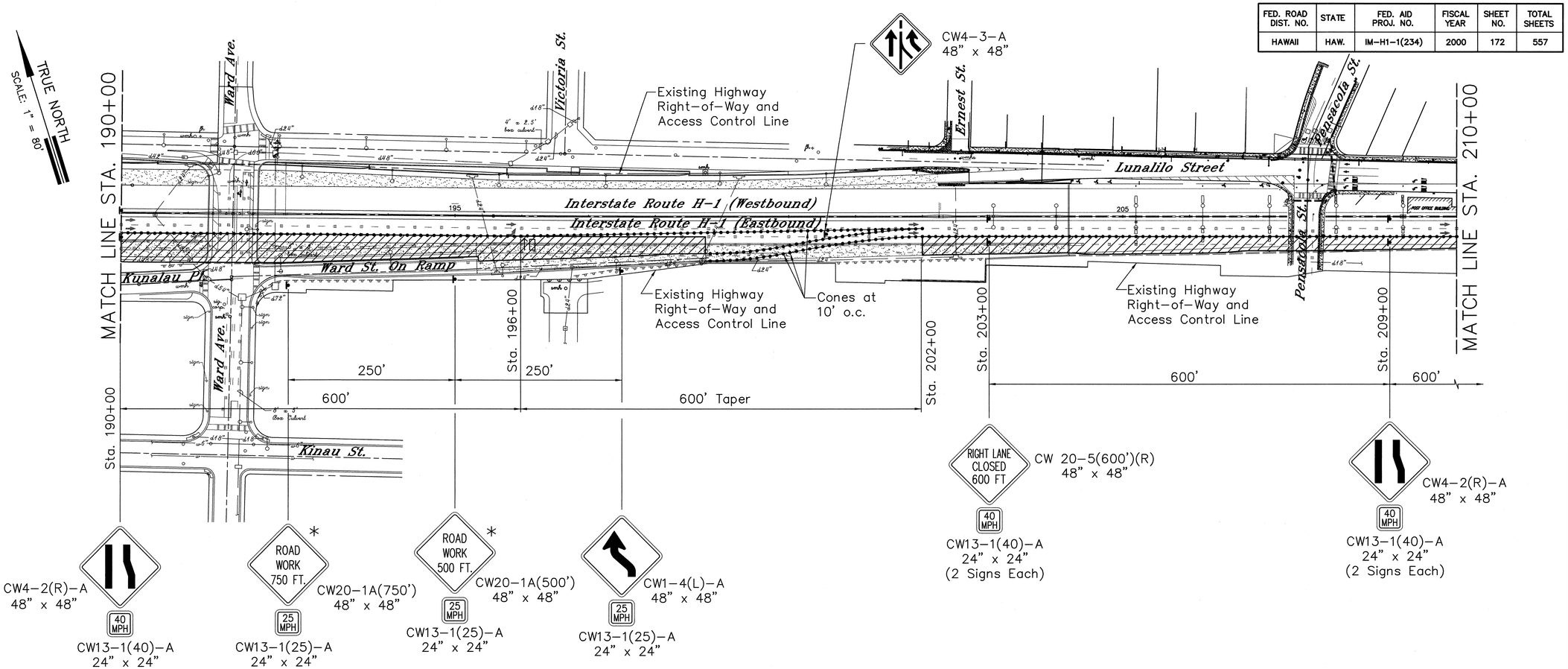
Vic. of Punchbowl Off Ramp to Kapiolani IC

F.A.I Project No. IM-H1-1(234)

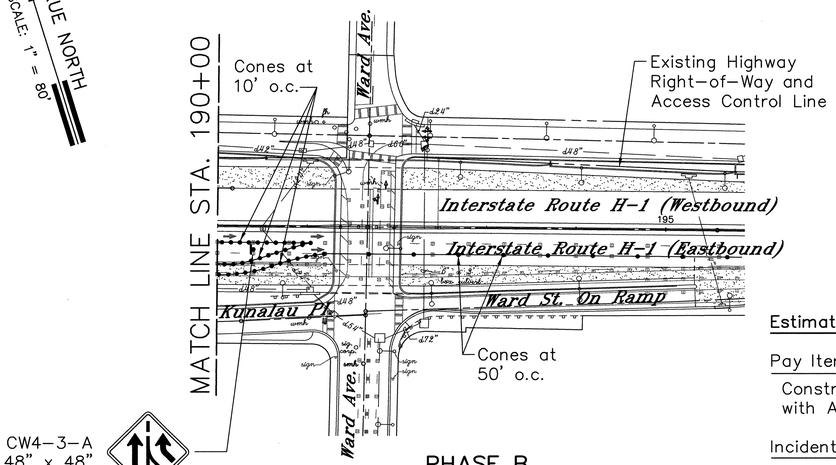
Scale: 1"=80' Date: June 1, 1999

SHEET NO. **F16** OF **114** SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	172	557



PHASE A



PHASE B

Estimated Quantities:

Pay Items:

Construction Sign with 2 Posts Marked with Asterisk (*) – 2 Each

Incidental Items:

Traffic Control Signs/Devices Without Asterisk (*)

Note:

For Phase B, Close Off Ward St. On Ramp to Perform Work on the Ramp and Within the Freeway Gore Area. See Sheet F27 for Further Details.

* Construction Signs with 2 Posts Marked with Asterisk (*): To be Installed at the Start of Phase A and to be Removed at the End of Phase B. To be Paid Under Item 621.7200, Construction Warning Sign with 2 Posts – H-1 Freeway. All Other Traffic Control Signs/Devices Without Asterisk (*) are Incidental.

BENJAMIN S. TANAKA LICENSED PROFESSIONAL ENGINEER No.2055-C HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TCP FOR PARTIAL FWY. CLOSURE (EB)

RIGHT LANES CLOSED

INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

Scale: 1"=80' Date: June 1, 1999

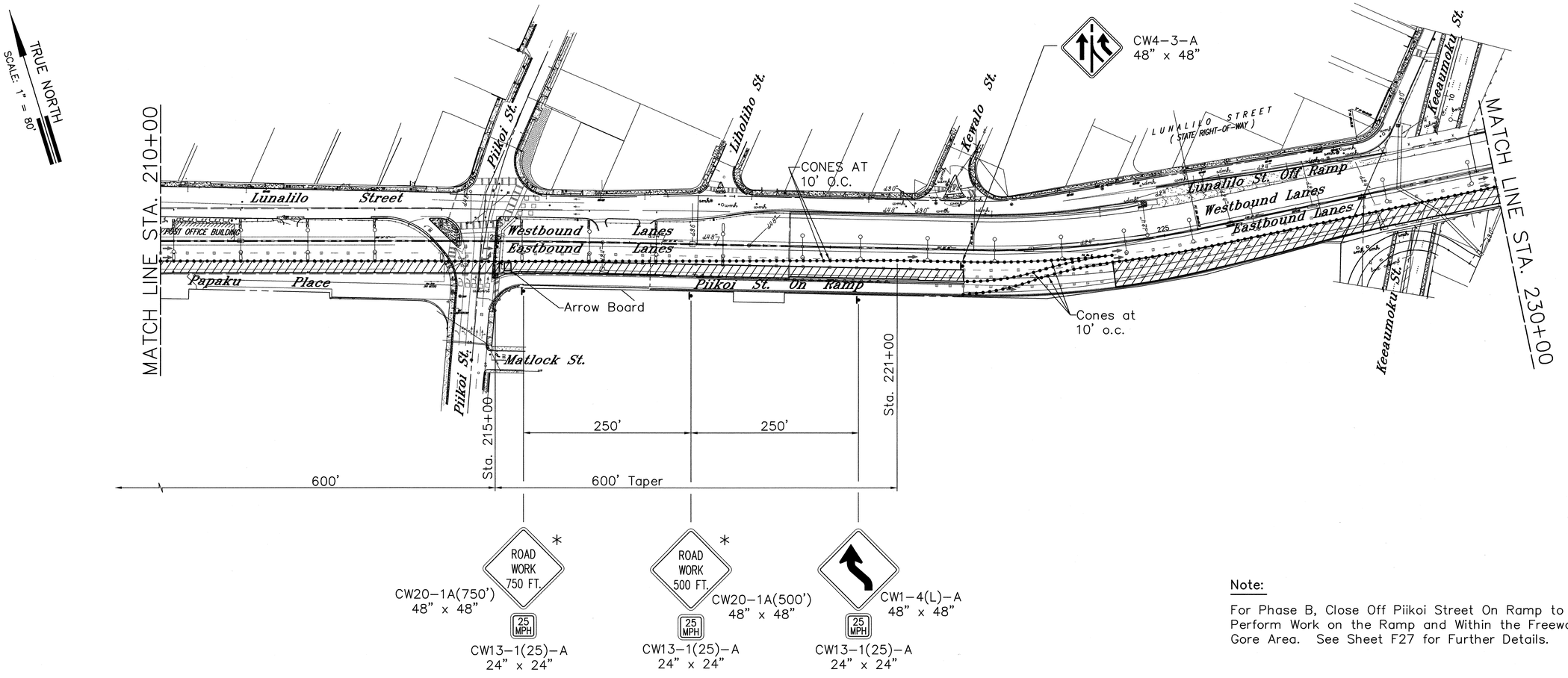
SHEET NO. F17 OF 114 SHEETS

DATE: 10/21/98
SCALE: 1 = 80
FILE: 9815-116

PM: BST
OPER: SHA,*FAI
REVISED: 07/14/99

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	173	557



PHASE A

Estimated Quantities:

Pay Items:

Construction Sign with 2 Posts Marked with Asterisk (*) – 2 Each

Incidental Items:

Traffic Control Signs/Devices Without Asterisk (*)

* Construction Signs with 2 Posts Marked with Asterisk (*):
To be Installed at the Start of Phase A and to be Removed at the End of Phase B.
To be Paid Under Item 621.7200, Construction Warning Sign with 2 Posts – H-1 Freeway. All Other Traffic Control Signs/Devices Without Asterisk (*) are Incidental.

Note:

For Phase B, Close Off Piikoi Street On Ramp to Perform Work on the Ramp and Within the Freeway Gore Area. See Sheet F27 for Further Details.

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TCP FOR PARTIAL FWY. CLOSURE (EB)
RIGHT LANES CLOSED
INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

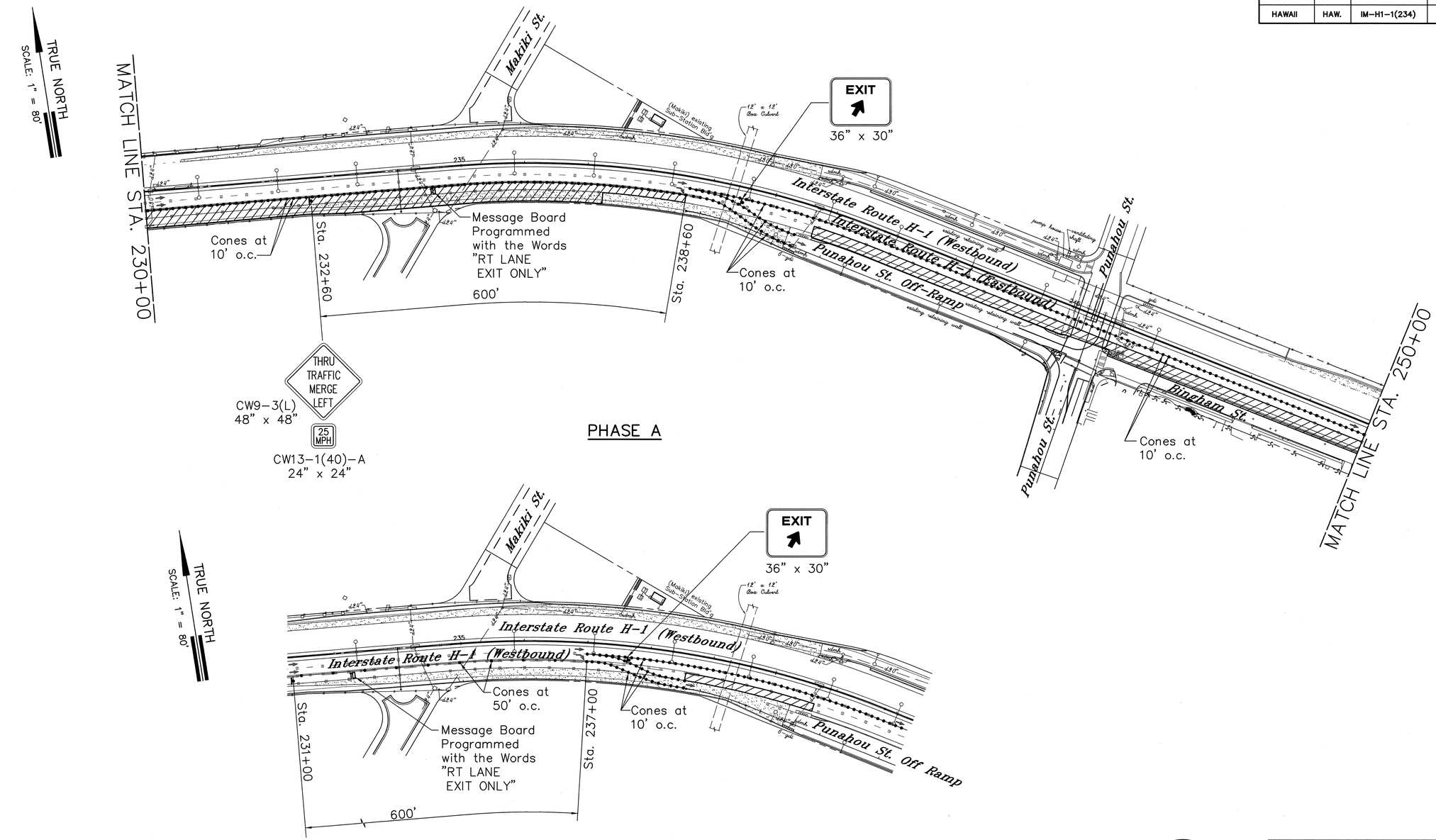
Scale: 1"=80' Date: June 1, 1999

SHEET NO. F18 OF 114 SHEETS

PM: BST
OPER: SHA,*FAI
REVISED: 07/14/99
DATE: 10/19/98
SCALE: 1 = 80
FILE: 9815-114

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	174	557



PM: BST
OPER: SHA,*FAI
REVISED: 07/14/99

DATE: 10/22/98
SCALE: 1 = 80
FILE: 9815-121

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

Estimated Quantities:

Pay Items:

None

Incidental Items:

Traffic Control Signs/Devices Without Asterisk (*)

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TCP FOR PARTIAL FWY. CLOSURE (EB)

RIGHT LANES CLOSED

INTERSTATE ROUTE H-1 RESURFACING

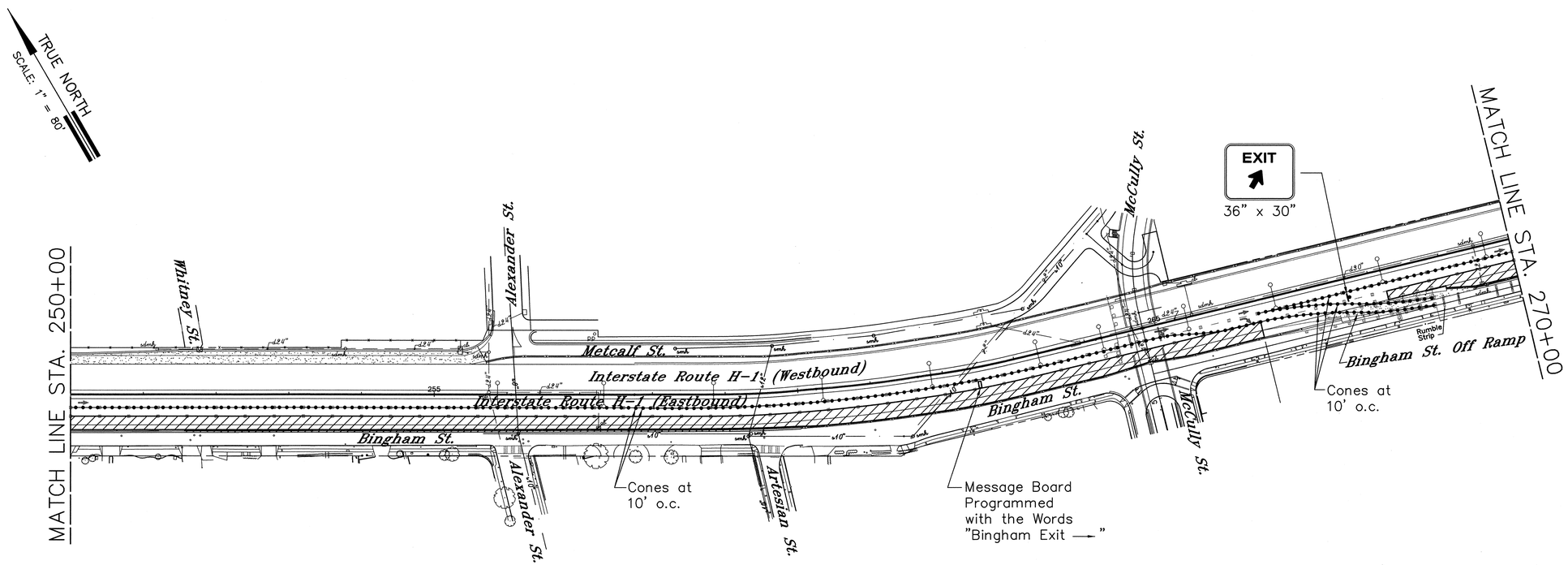
Vic. of Punchbowl Off Ramp to Kapiolani IC

F.A.I Project No. IM-H1-1(234)

Scale: 1"=80' Date: June 1, 1999

SHEET NO. **F19** OF **114** SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	175	557



PHASE A

PM: BST
OPER: FAI
REVISED: 07/14/99

DATE: 10/22/98
SCALE: 1 = 80
FILE: 9815-122

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

Estimated Quantities:

Pay Items:

None

Incidental Items:

Traffic Control Signs/Devices Without Asterisk (*)

Note:

For Phase B, Close Off Bingham St. Off Ramp TO Perform Work at the Ramp and Within the Freeway Gore Area. See Sheet F28 for Further Details.

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TCP FOR PARTIAL FWY. CLOSURE (EB)

RIGHT LANES CLOSED

INTERSTATE ROUTE H-1 RESURFACING

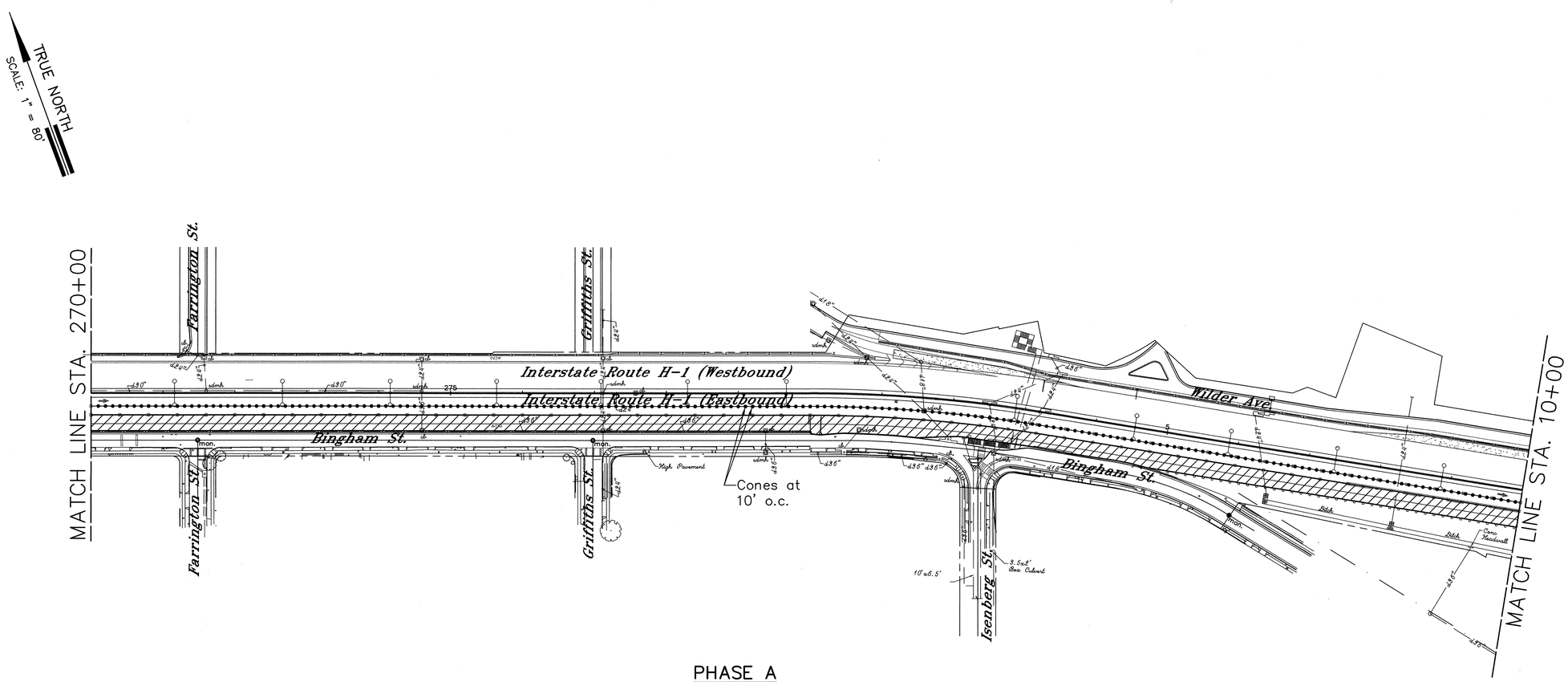
Vic. of Punchbowl Off Ramp to Kapiolani IC

F.A.I Project No. IM-H1-1(234)

Scale: 1"=80' Date: June 1, 1999

SHEET NO. **F20** OF **114** SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	170	557



PHASE A

PM: BST
OPER: SHA,*FAI
REVISED: 07/14/99

DATE: 10/22/98
SCALE: 1 = 80
FILE: 9815-123

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

Estimated Quantities:

Pay Items:

None

Incidental Items:

Traffic Control Signs/Devices Without Asterisk (*)

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TCP FOR PARTIAL FWY. CLOSURE (EB)

RIGHT LANES CLOSED

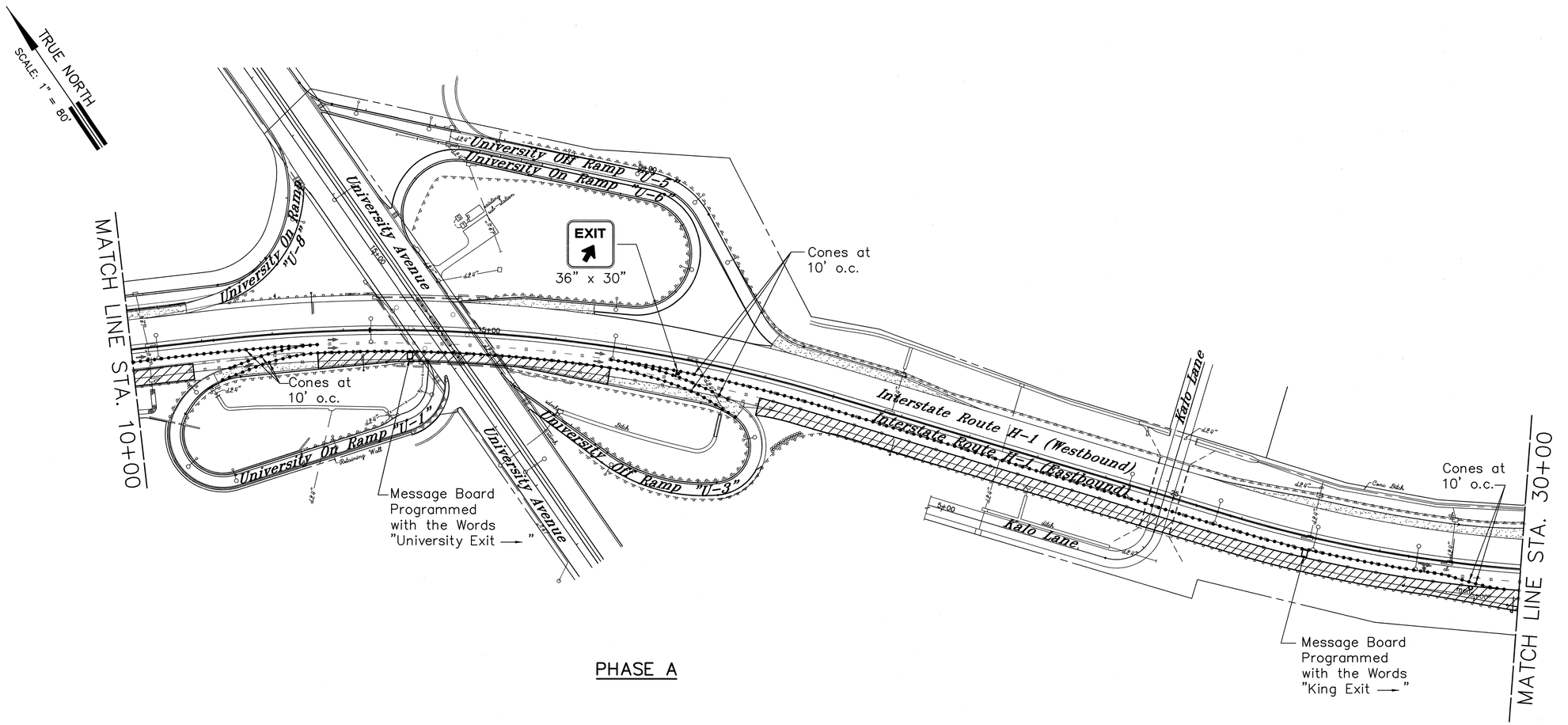
INTERSTATE ROUTE H-1 RESURFACING

Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

Scale: 1"=80' Date: June 1, 1999

SHEET NO. F21 OF 114 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	177	557



PHASE A

DATE: 10/23/98
SCALE: 1 = 80
FILE: 9815-124

PM: BST
OPER: FAI
REVISED: 07/14/99

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

Estimated Quantities:

Pay Items:

None

Incidental Items:

Traffic Control Signs/Devices Without Asterisk (*)

Note:

For Phase B, Close Off University Ave. On Ramp and Off Ramp to Perform Work at the Ramps and at the Freeway Gore Area. See Sheets F29 and F30 for Further Details.

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TCP FOR PARTIAL FWY. CLOSURE (EB)

RIGHT LANES CLOSED

INTERSTATE ROUTE H-1 RESURFACING

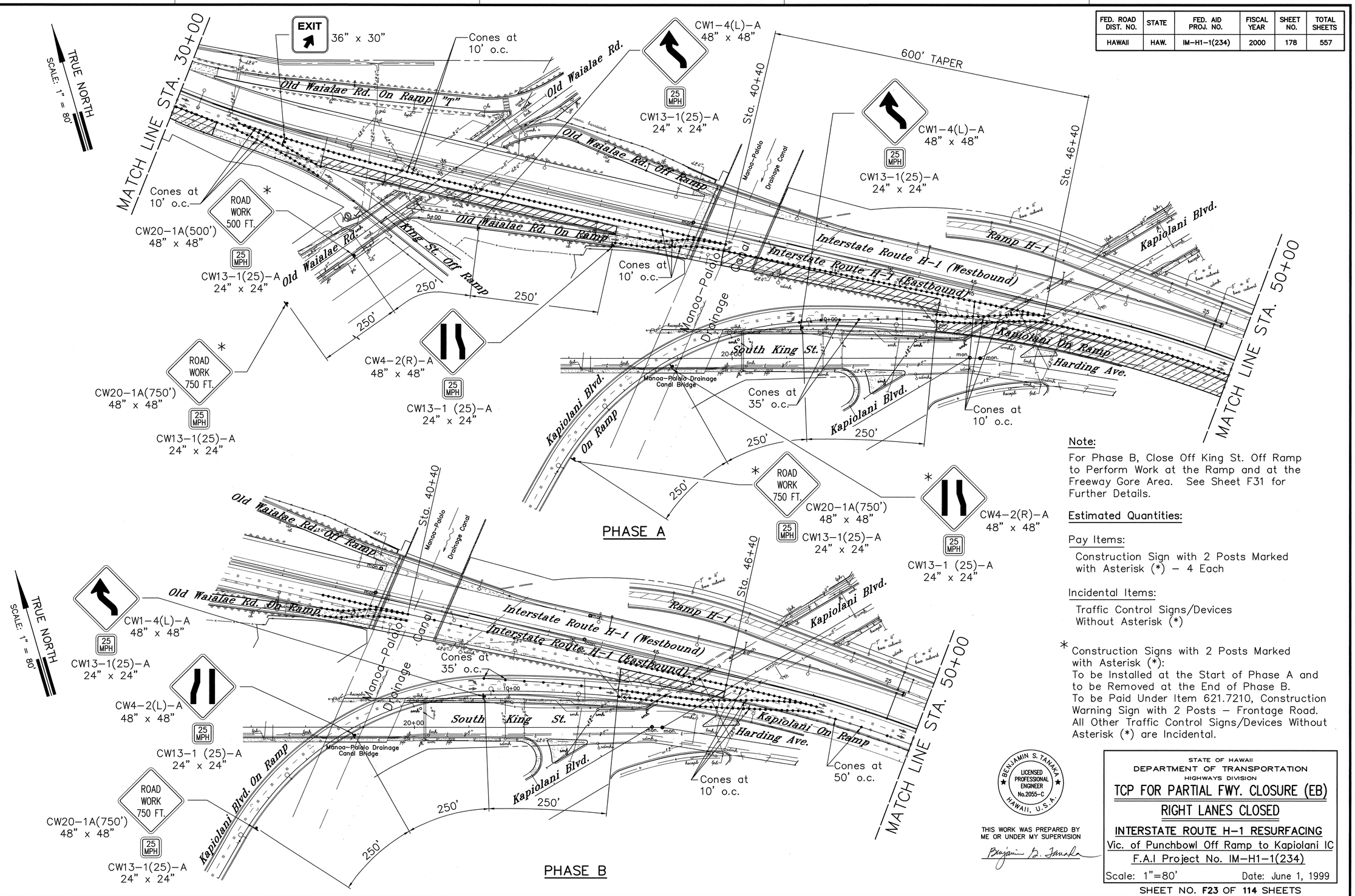
Vic. of Punchbowl Off Ramp to Kapiolani IC

F.A.I Project No. IM-H1-1(234)

Scale: 1"=80' Date: June 1, 1999

SHEET NO. **F22** OF **114** SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	178	557



Note:

For Phase B, Close Off King St. Off Ramp to Perform Work at the Ramp and at the Freeway Gore Area. See Sheet F31 for Further Details.

Estimated Quantities:

Pay Items:

Construction Sign with 2 Posts Marked with Asterisk (*) – 4 Each

Incidental Items:

Traffic Control Signs/Devices Without Asterisk (*)

* Construction Signs with 2 Posts Marked with Asterisk (*):
To be Installed at the Start of Phase A and to be Removed at the End of Phase B.
To be Paid Under Item 621.7210, Construction Warning Sign with 2 Posts – Frontage Road.
All Other Traffic Control Signs/Devices Without Asterisk (*) are Incidental.

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TCP FOR PARTIAL FWY. CLOSURE (EB)

RIGHT LANES CLOSED

INTERSTATE ROUTE H-1 RESURFACING

Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

Scale: 1"=80' Date: June 1, 1999

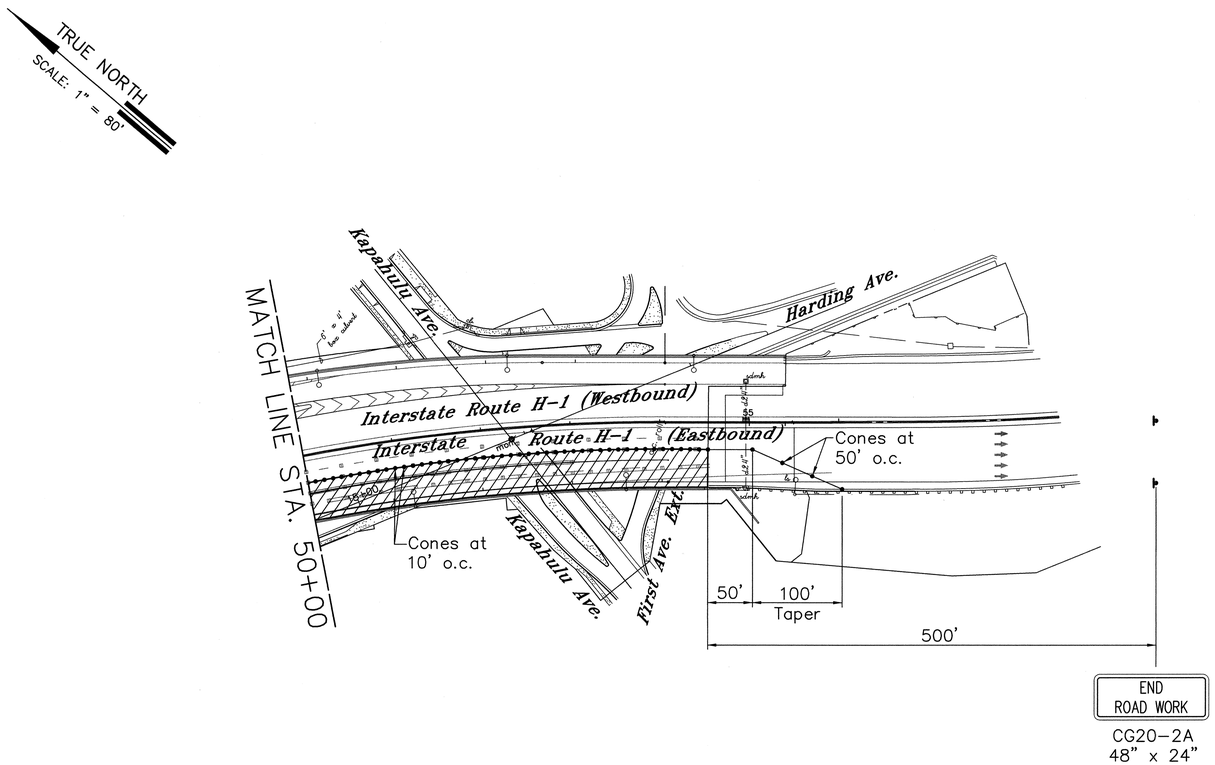
SHEET NO. F23 OF 114 SHEETS

DATE: 10/23/98
SCALE: 1 = 80
FILE: 9815-125

PM: BST
OPER: FAI
REVISED: 07/14/99

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	179	557



PHASE A

PM: BST
OPER: SHA,+FAI
REVISED: 07/14/99

DATE: 10/23/98
SCALE: 1 = 80
FILE: 9815-126

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

Estimated Quantities:

Pay Items:

None

Incidental Items:

Traffic Control Signs/Devices Without Asterisk (*)

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TCP FOR PARTIAL FWY. CLOSURE (EB)

RIGHT LANES CLOSED

INTERSTATE ROUTE H-1 RESURFACING

Vic. of Punchbowl Off Ramp to Kapiolani IC

F.A.I Project No. IM-H1-1(234)

Scale: 1"=80' Date: June 1, 1999

SHEET NO. F24 OF 114 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	180	557

TRUE NORTH
SCALE: 1" = 80'

Message Board With Alternating Messages:
"Kinau Exit Closed" and "Exits at Pali Pnchbowl"

Message Board With Alternating Messages:
"Kinau Exit Closed" and "Exit at Pnchbowl"

School Street

Aala Street

Nuuanu Avenue

Pali Hwy.

Pali Hwy. On Ramp

Cones at 10' O.C.

Cones at 50' O.C.

125 130 135 140 145

Pali Hwy. Off Ramp

Pali Hwy. Off Ramp

Punchbowl Street Off Ramp

Sta. 145+00

MATCH LINE STA. 150+00

P.C. Sta. 149+55.86
R = 3000'

Sta. 134+49.72 =
Sta. 135+00.00

STA. 137+70

RAMP CLOSED 2000 FT.
CW20-6a(MOD.)
48" x 48"

THRU TRAFFIC MERGE LEFT
CW9-3(L)
48" x 48"

DATE: 10/23/98
SCALE: 1 = 80
FILE: 9815-127

PM: BST
OPER: FAI
REVISED: 07/14/99

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

Estimated Quantities:

Pay Items:

None

Incidental Items:

Traffic Control Signs/Devices Without Asterisk (*)

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TCP FOR PARTIAL FWY. CLOSURE (EB)

RAMP CLOSURES

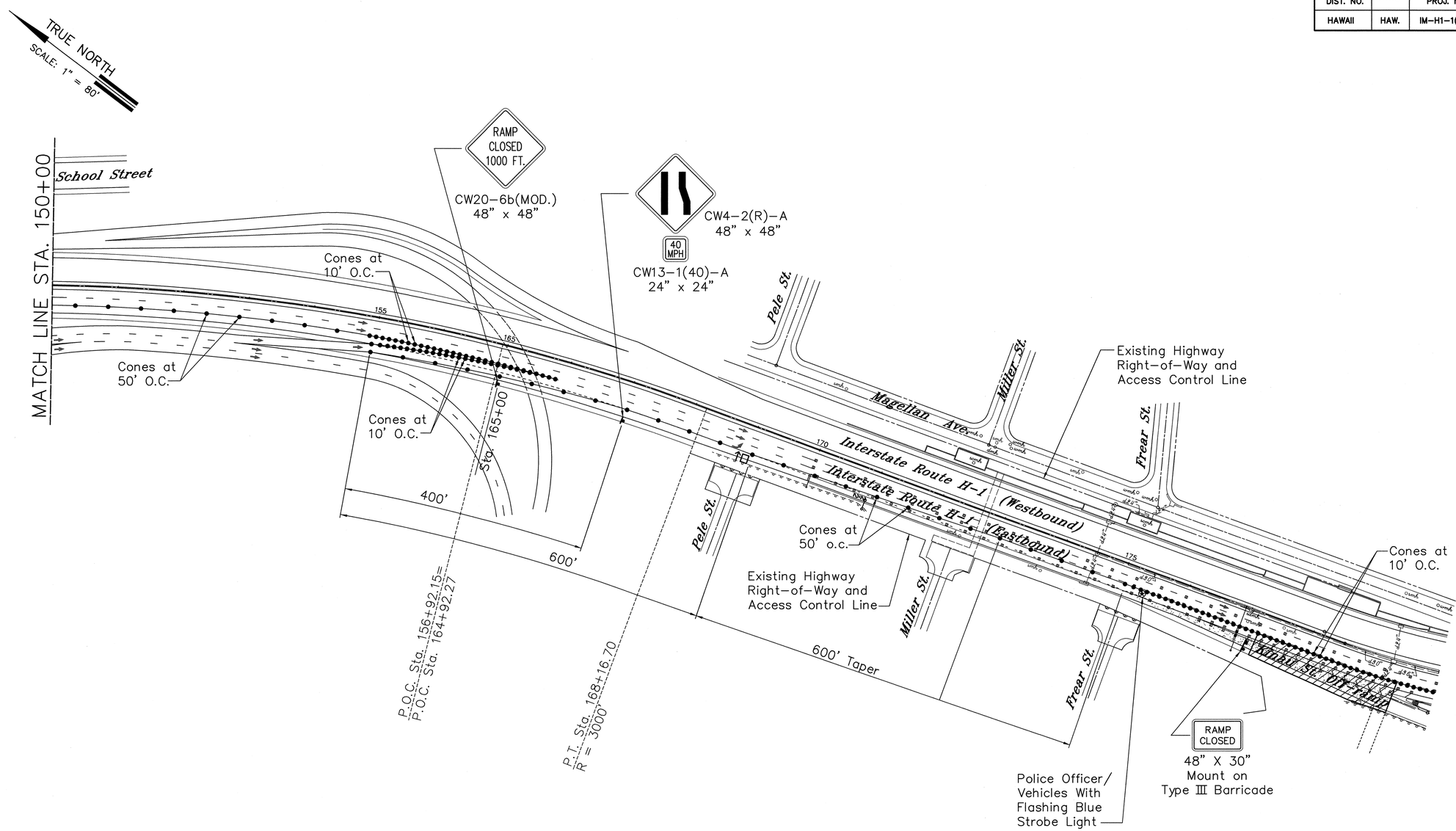
INTERSTATE ROUTE H-1 RESURFACING

Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

Scale: 1"=80' Date: June 1, 1999

SHEET NO. **F25** OF **114** SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	181	557



DATE: 10/23/98
SCALE: 1 = 80
FILE: 9815-128

PM: BST
OPER: FAI
REVISED: 07/14/99

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

Estimated Quantities:

Pay Items:

None

Incidental Items:

Traffic Control Signs/Devices Without Asterisk (*)
Type III Barricade – 1 Each
Police Officers

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TCP FOR PARTIAL FWY. CLOSURE (EB)

RAMP CLOSURES

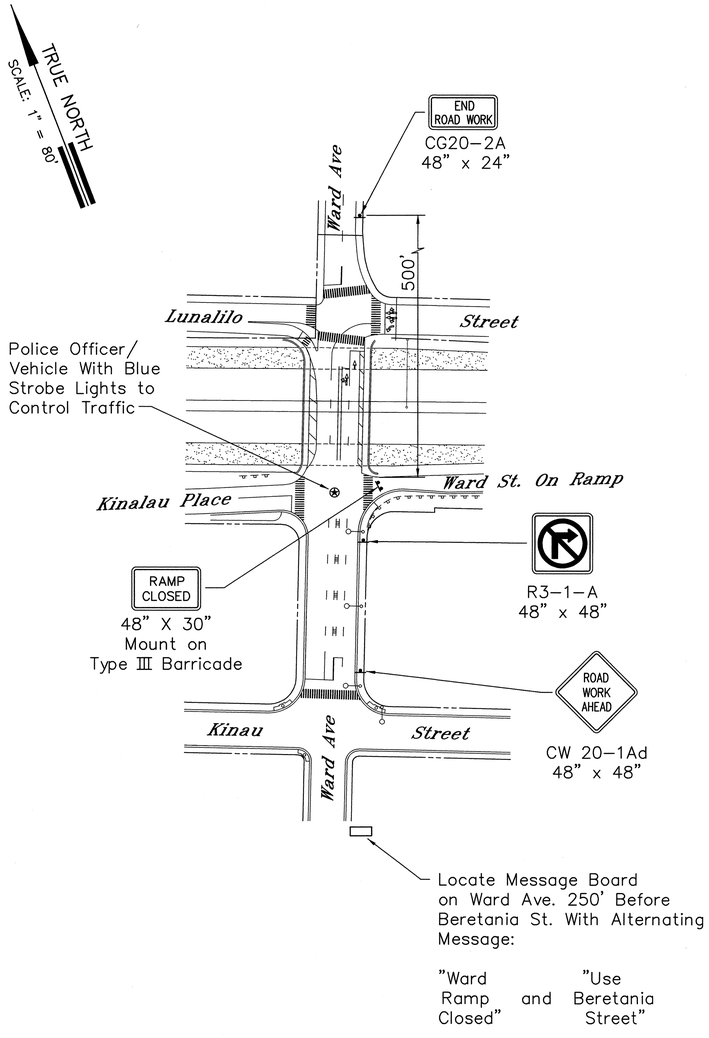
INTERSTATE ROUTE H-1 RESURFACING

Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

Scale: 1"=80' Date: June 1, 1999

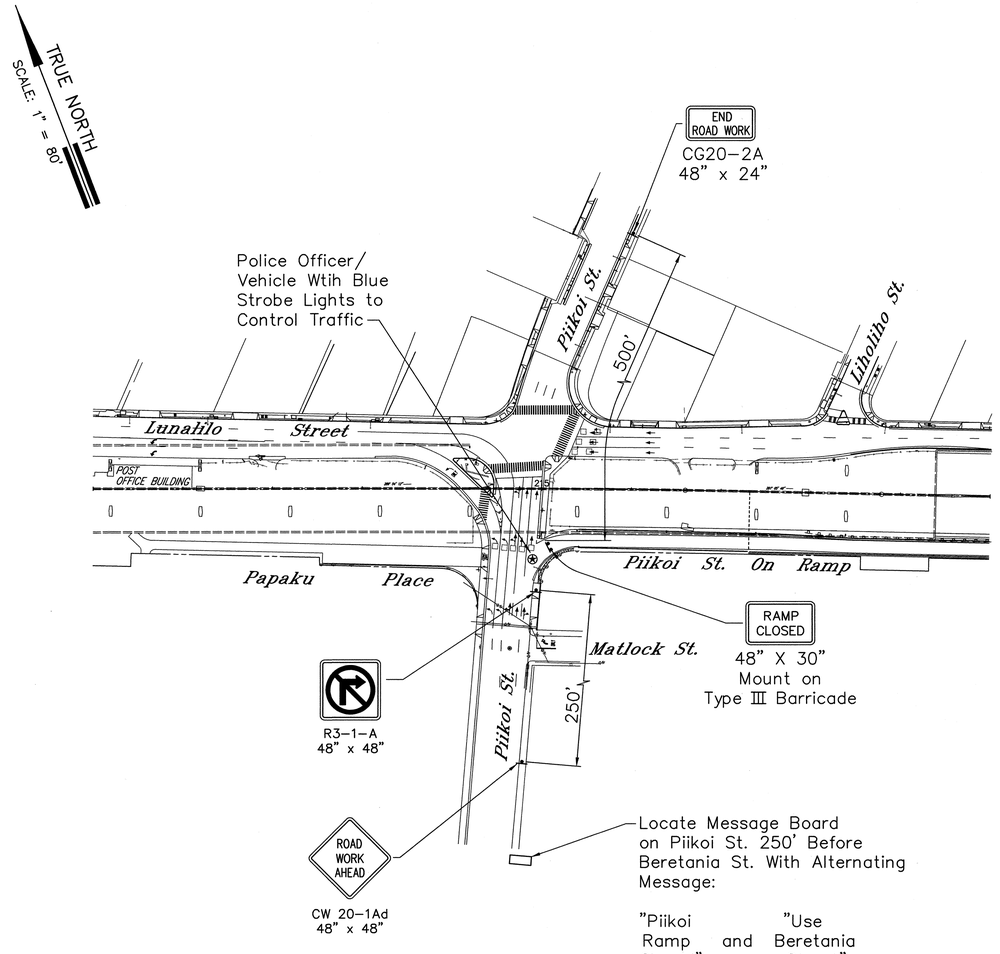
SHEET NO. **F26** OF **114** SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	182	557



Locate Message Board on Ward Ave. 250' Before Beretania St. With Alternating Message:

"Ward Ramp Closed" and "Use Beretania Street"



Locate Message Board on Piikoi St. 250' Before Beretania St. With Alternating Message:

"Piikoi Ramp Closed" and "Use Beretania Street"

DATE: 10/23/98
SCALE: 1 = 80
FILE: 9815-129

PM: BST
OPER: FAI
REVISED: 07/14/99

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

Estimated Quantities:

Pay Items:

None

Incidental Items:

Traffic Control Signs/Devices Without Asterisk (*)
Type III Barricades – 2 Each
Police Officers

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TCP FOR PARTIAL FWY. CLOSURE (EB)

RAMP CLOSURES

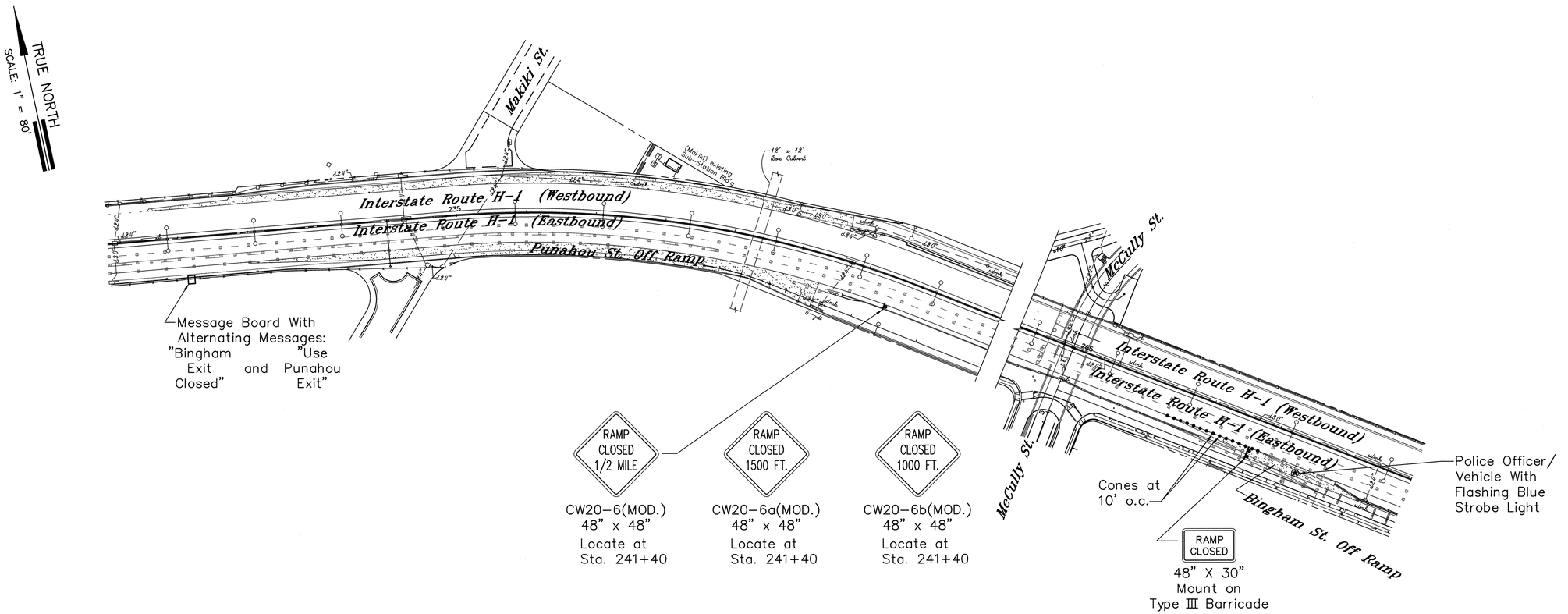
INTERSTATE ROUTE H-1 RESURFACING

Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

Scale: 1"=80' Date: June 1, 1999

SHEET NO. **F27** OF **114** SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	183	557



PM: BST
OPER: FAI
REVISED: 07/14/99

DATE: 10/23/98
SCALE: 1 = 80
FILE: 9815-130

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

Estimated Quantities:

Pay Items:

None

Incidental Items:

Traffic Control Signs/Devices Without Asterisk (*)
Type III Barricade – 1 Each
Police Officers

BENJAMIN S. TANAKA ★ LICENSED PROFESSIONAL ENGINEER No. 2055-C ★ HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TCP FOR PARTIAL FWY. CLOSURE (EB)

RAMP CLOSURES

INTERSTATE ROUTE H-1 RESURFACING

Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

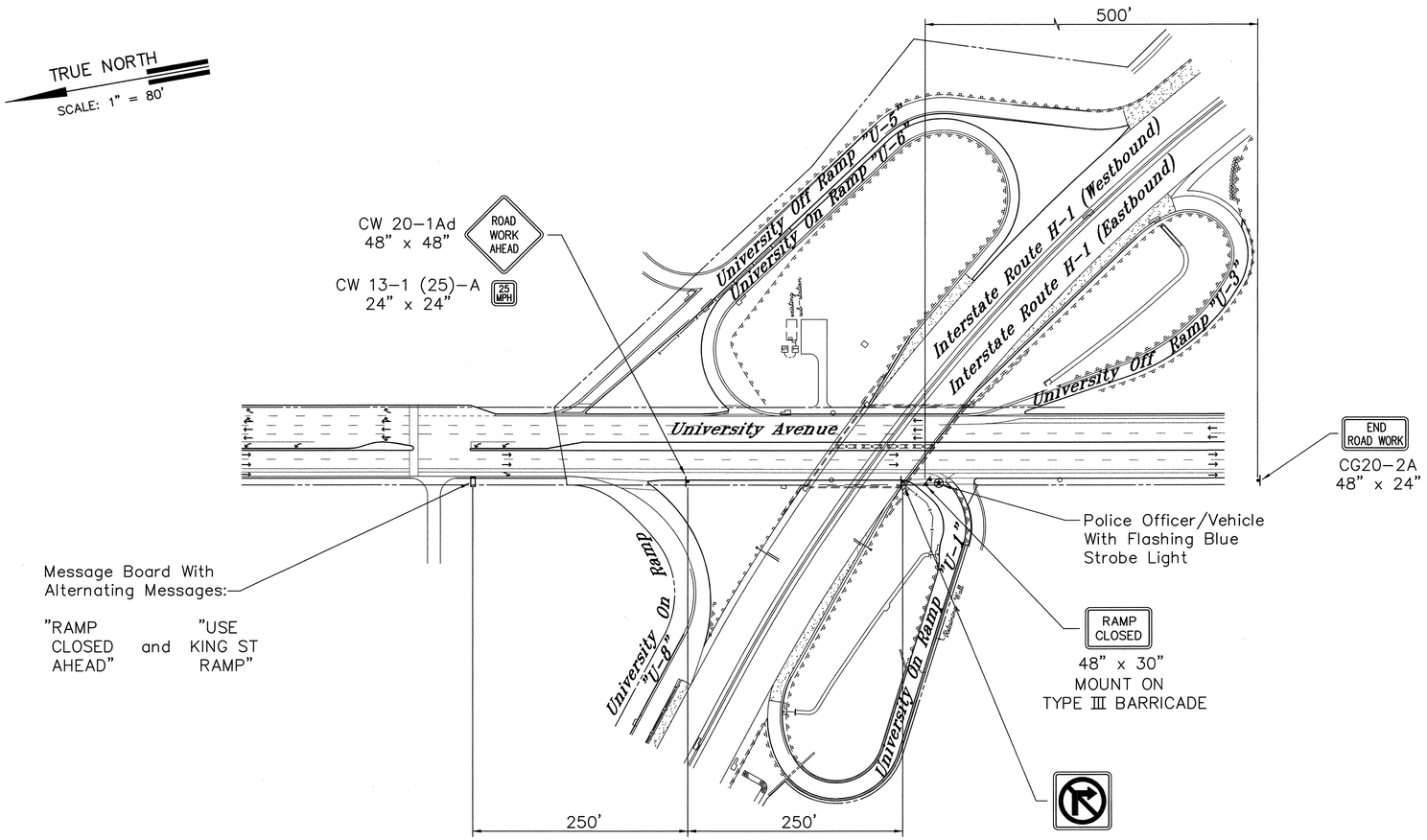
Scale: 1"=80' Date: June 1, 1999

SHEET NO. F28 OF 114 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	184	557

TRUE NORTH

SCALE: 1" = 80'



DATE: 10/23/98
SCALE: 1 = 80
FILE: 9815-131

PM: BST
OPER: FAI
REVISED: 07/14/99

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

Estimated Quantities:

Pay Items:

None

Incidental Items:

Traffic Control Signs/Devices Without Asterisk (*)
Type III Barricade – 1 Each
Police Officers

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TCP FOR PARTIAL FWY. CLOSURE (EB)

RAMP CLOSURES

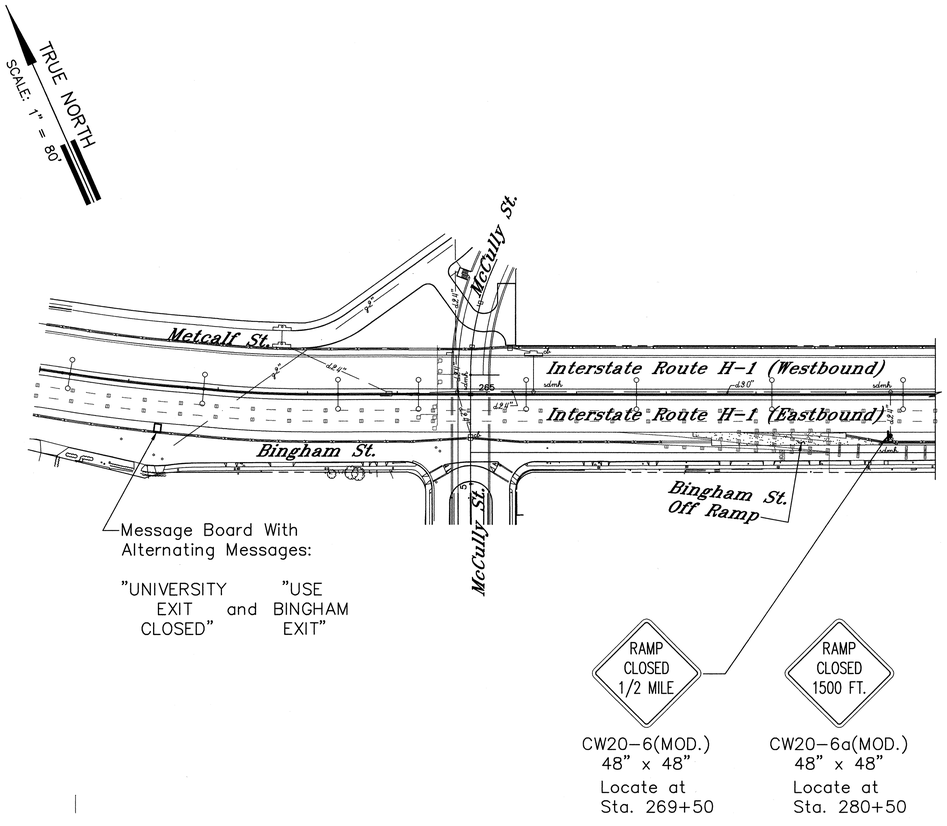
INTERSTATE ROUTE H-1 RESURFACING

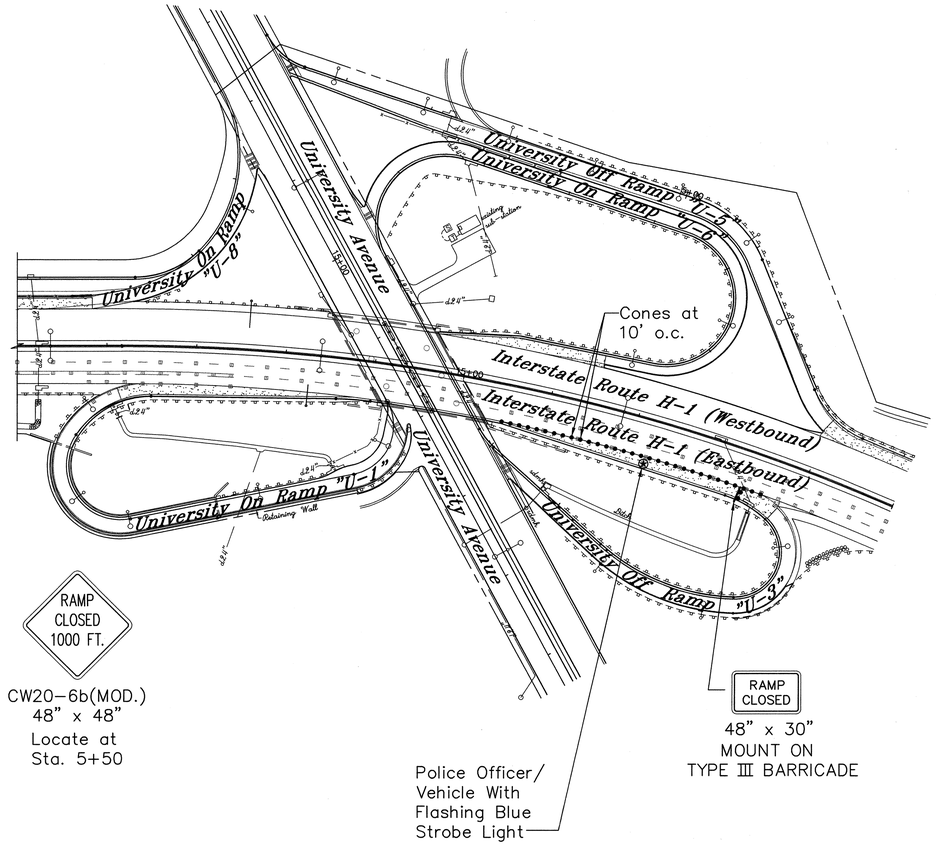
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

Scale: 1"=80' Date: June 1, 1999

SHEET NO. **F29** OF **114** SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	185	557





DATE: 10/23/98
SCALE: 1 = 80
FILE: 9815-132

PM: BST
OPER: FAI
REVISED: 07/14/99

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

Estimated Quantities:

Pay Items:

None

Incidental Items:

Traffic Control Signs/Devices Without Asterisk (*)
Type III Barricade – 1 Each
Police Officers

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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Benjamin S. Tanaka

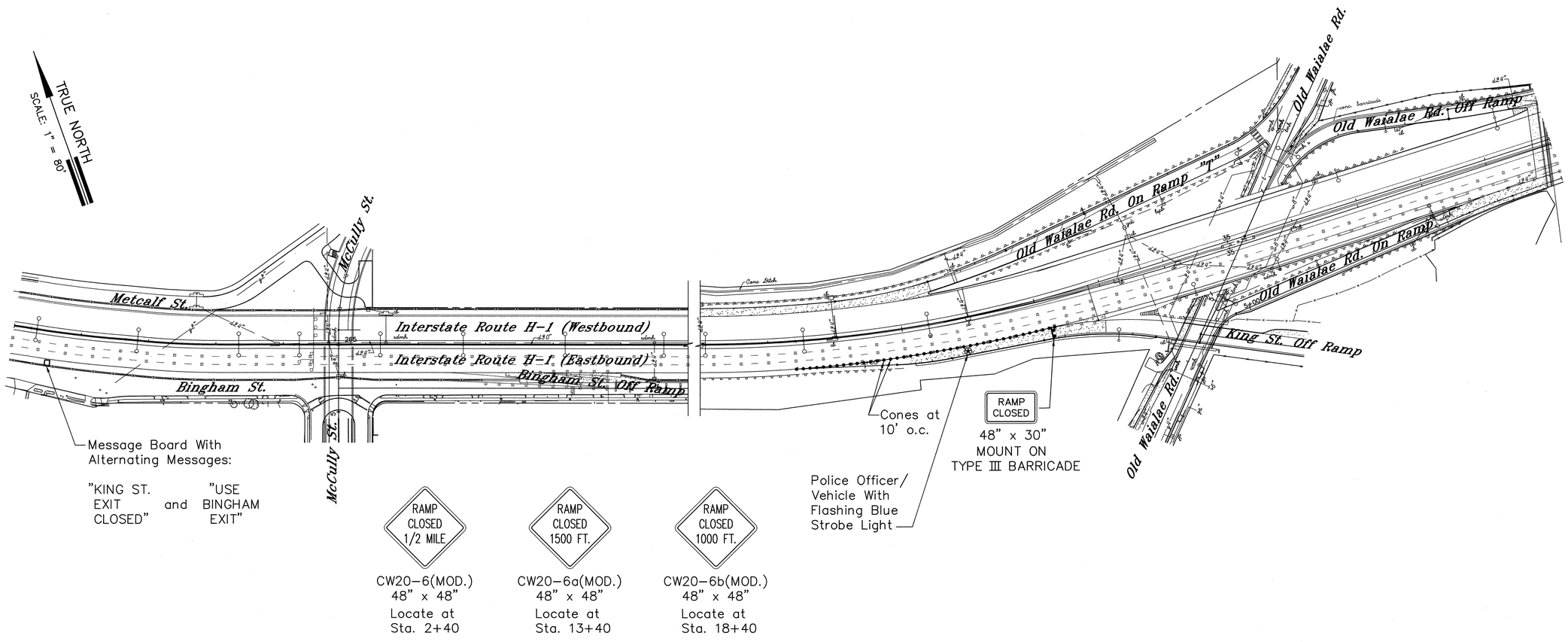
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TCP FOR PARTIAL FWY. CLOSURE (EB)
RAMP CLOSURES
INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

Scale: 1"=80' Date: June 1, 1999

SHEET NO. **F30** OF **114** SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	186	557



PM: BST
OPER: FAI
REVISED: 07/14/99
DATE: 10/23/98
SCALE: 1 = 80
FILE: 9815-133

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

Estimated Quantities:

Pay Items:

None

Incidental Items:

Traffic Control Signs/Devices Without Asterisk (*)
Type III Barricade – 1 Each
Police Officers

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TCP FOR PARTIAL FWY. CLOSURE (EB)
RAMP CLOSURES

INTERSTATE ROUTE H-1 RESURFACING

Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

Scale: 1"=80' Date: June 1, 1999

SHEET NO. F31 OF 114 SHEETS

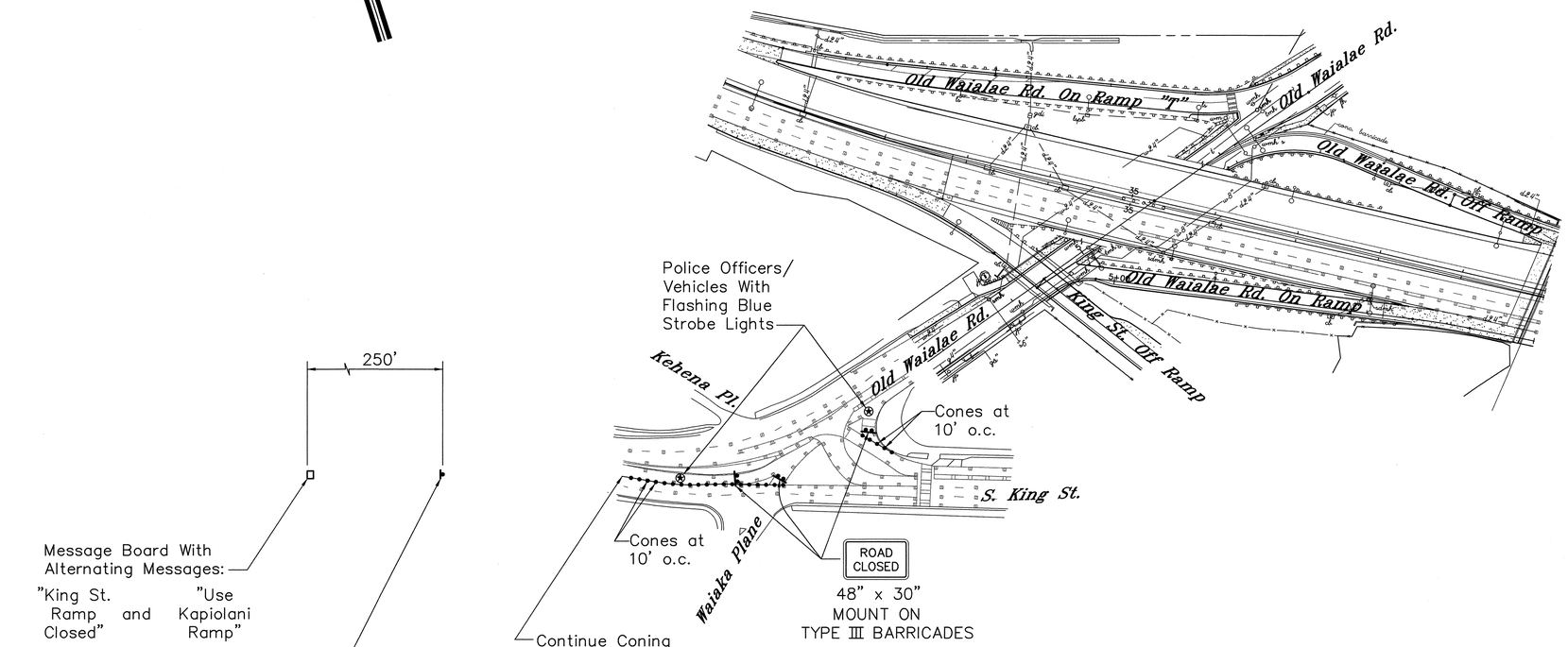
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	187	557

DRAWN: BST
PM:
DESIGN: FAI
OPER:
REVISED: 07/14/99

DATE: 10/23/98
SCALE: 1 = 80
FILE: 9815-134

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

TRUE NORTH
SCALE: 1" = 80'



Estimated Quantities:

Pay Items:

None

Incidental Items:

Traffic Control Signs/Devices Without Asterisk (*)
Type III Barricade – 3 Each
Police Officers

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TCP FOR PARTIAL FWY. CLOSURE (EB)

RAMP CLOSURES

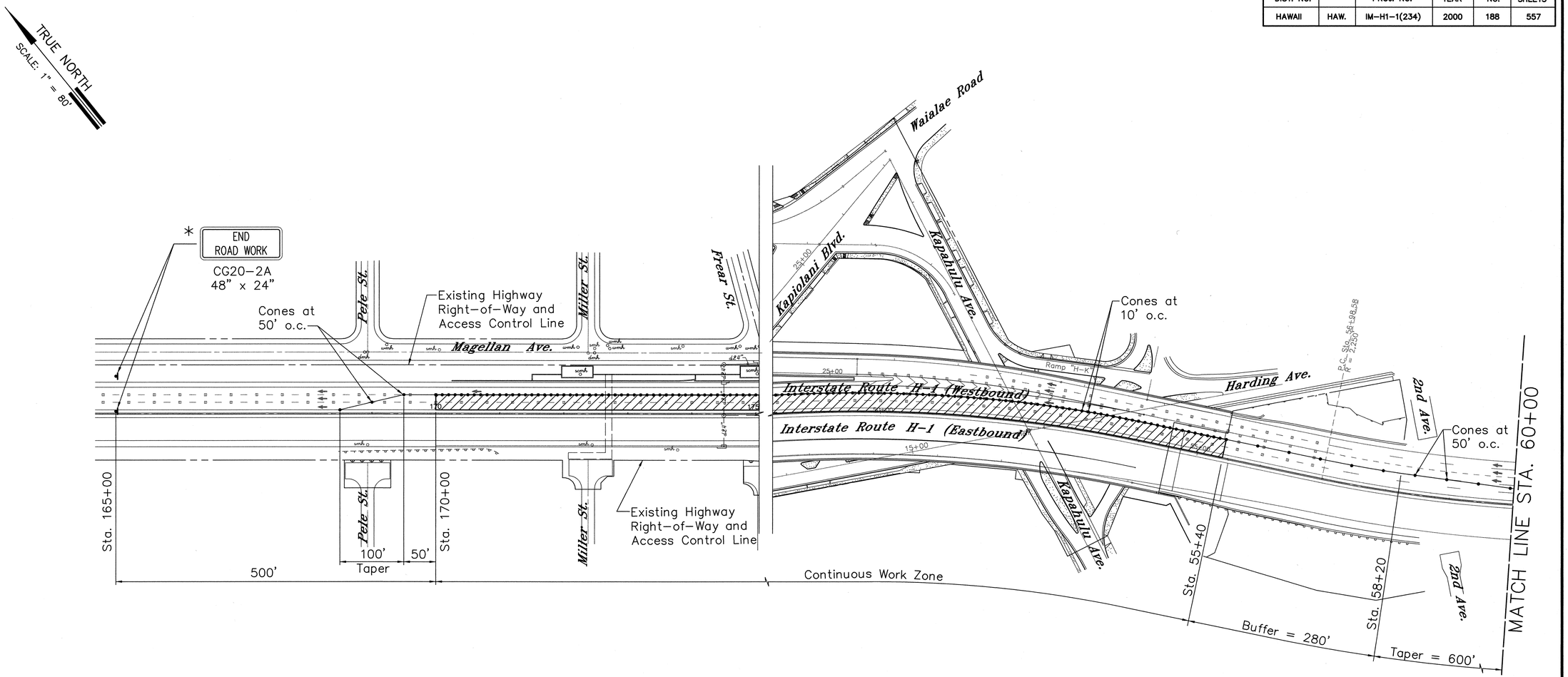
INTERSTATE ROUTE H-1 RESURFACING

Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

Scale: 1"=80' Date: June 1, 1999

SHEET NO. F32 OF 114 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	188	557



PM: BST
OPER: SHA,*FAI
REVISED: 07/14/99

DATE: 10/19/98
SCALE: 1 = 80
FILE: 9815-109

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

Estimated Quantities:

Pay Items:

Construction Sign with 2 Posts Marked with Asterisk (*) – 2 Each

Incidental Items:

Traffic Control Signs/Devices Without Asterisk (*)

* Construction Signs with 2 Posts Marked with Asterisk (*):
To be Installed at the Start of Left Lane Closed and to be Removed at the End of Phase B, Right Lane Closed.
To be Paid Under Item 621.7200, Construction Warning Sign with 2 Posts – H-1 Freeway. All Other Traffic Control Signs/Devices Without Asterisk (*) are Incidental.

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TCP FOR PARTIAL FWY. CLOSURE (WB)

LEFT LANES CLOSED

INTERSTATE ROUTE H-1 RESURFACING

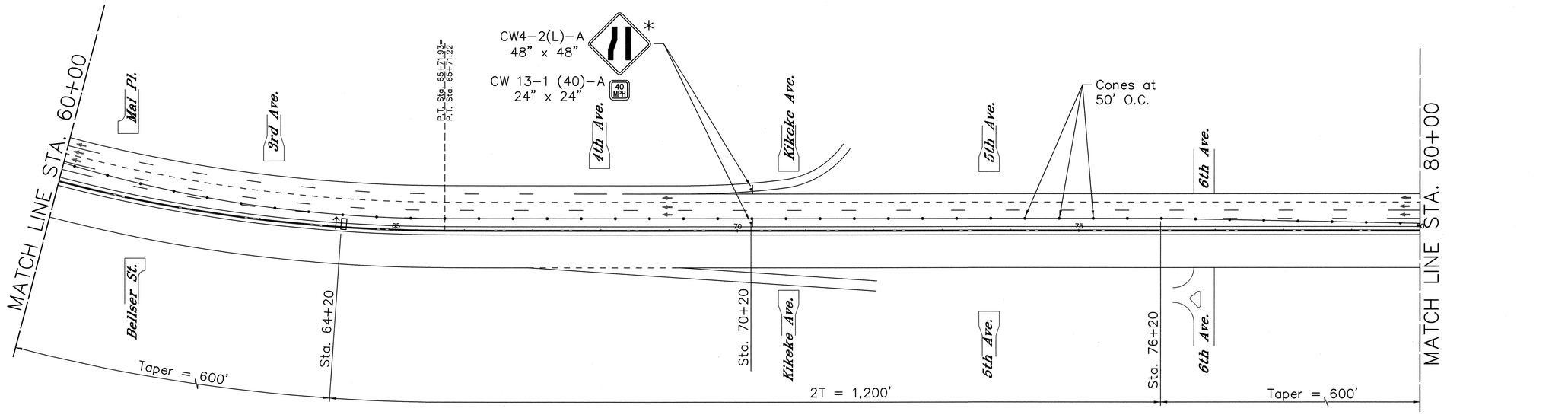
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

Scale: 1"=80' Date: June 1, 1999

SHEET NO. F33 OF 114 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	189	557

TRUE NORTH
SCALE: 1" = 80'



PM: BST
OPER: SHA,*FAI
REVISED: 07/14/99
DATE: 10/19/98
SCALE: 1 = 80
FILE: 9518-110

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

Estimated Quantities:

Pay Items:

Construction Sign with 2 Posts Marked with Asterisk (*) – 2 Each

Incidental Items:

Traffic Control Signs/Devices Without Asterisk (*)

* Construction Signs with 2 Posts Marked with Asterisk (*):
To be Installed at the Start of Left Lane Closed and to be Removed at the End of Phase B, Right Lane Closed.
To be Paid Under Item 621.7200, Construction Warning Sign with 2 Posts – H-1 Freeway. All Other Traffic Control Signs/Devices Without Asterisk (*) are Incidental.

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TCP FOR PARTIAL FWY. CLOSURE (WB)

LEFT LANES CLOSED

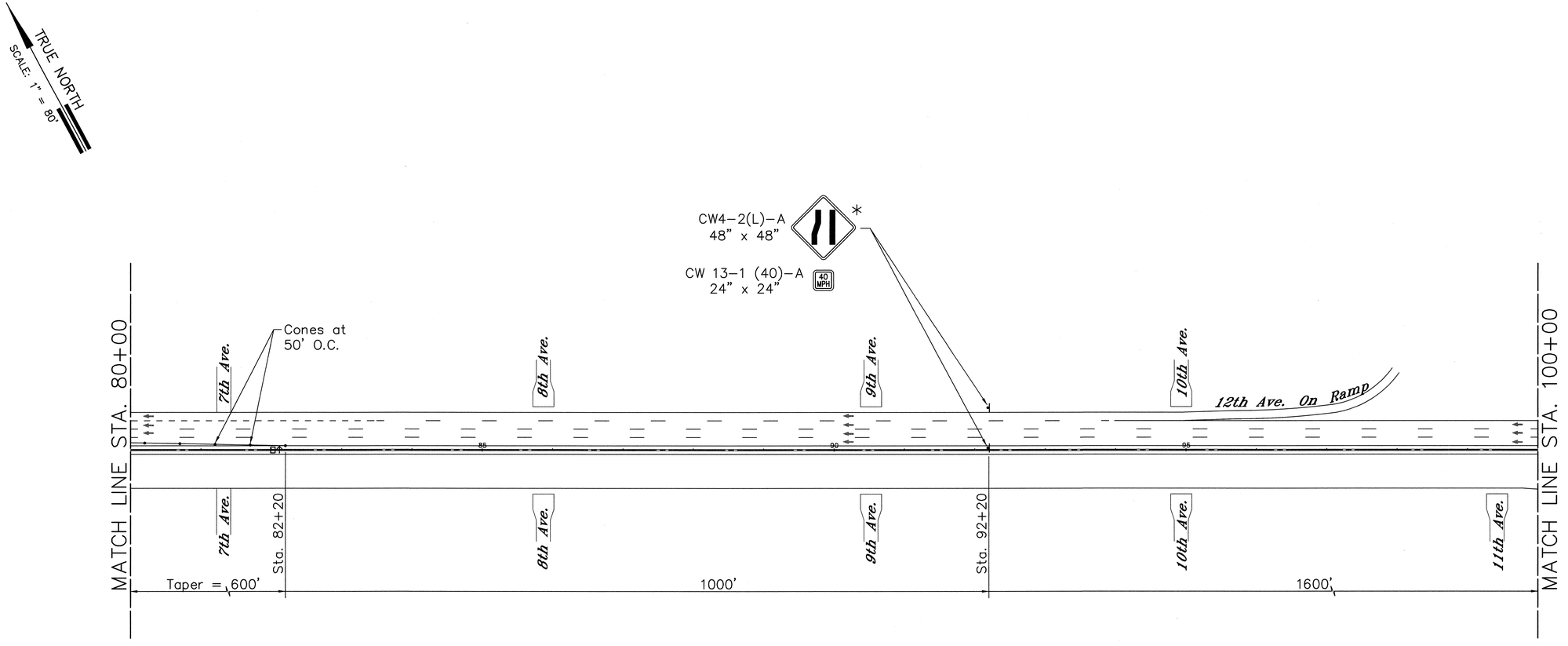
INTERSTATE ROUTE H-1 RESURFACING

Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

Scale: 1"=80' Date: June 1, 1999

SHEET NO. **F34** OF **114** SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	190	557



DATE: 10/19/98
SCALE: 1 = 80
FILE: 9518-111

PM: BST
OPER: SHA.*FAI
REVISED: 07/14/99

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

Estimated Quantities:

Pay Items:

Construction Sign with 2 Posts Marked with Asterisk (*) – 2 Each

Incidental Items:

Traffic Control Signs/Devices Without Asterisk (*)

* Construction Signs with 2 Posts Marked with Asterisk (*):
To be Installed at the Start of Left Lane Closed and to be Removed at the End of Phase B, Right Lane Closed.
To be Paid Under Item 621.7200, Construction Warning Sign with 2 Posts – H-1 Freeway. All Other Traffic Control Signs/Devices Without Asterisk (*) are Incidental.

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TCP FOR PARTIAL FWY. CLOSURE (WB)

LEFT LANES CLOSED

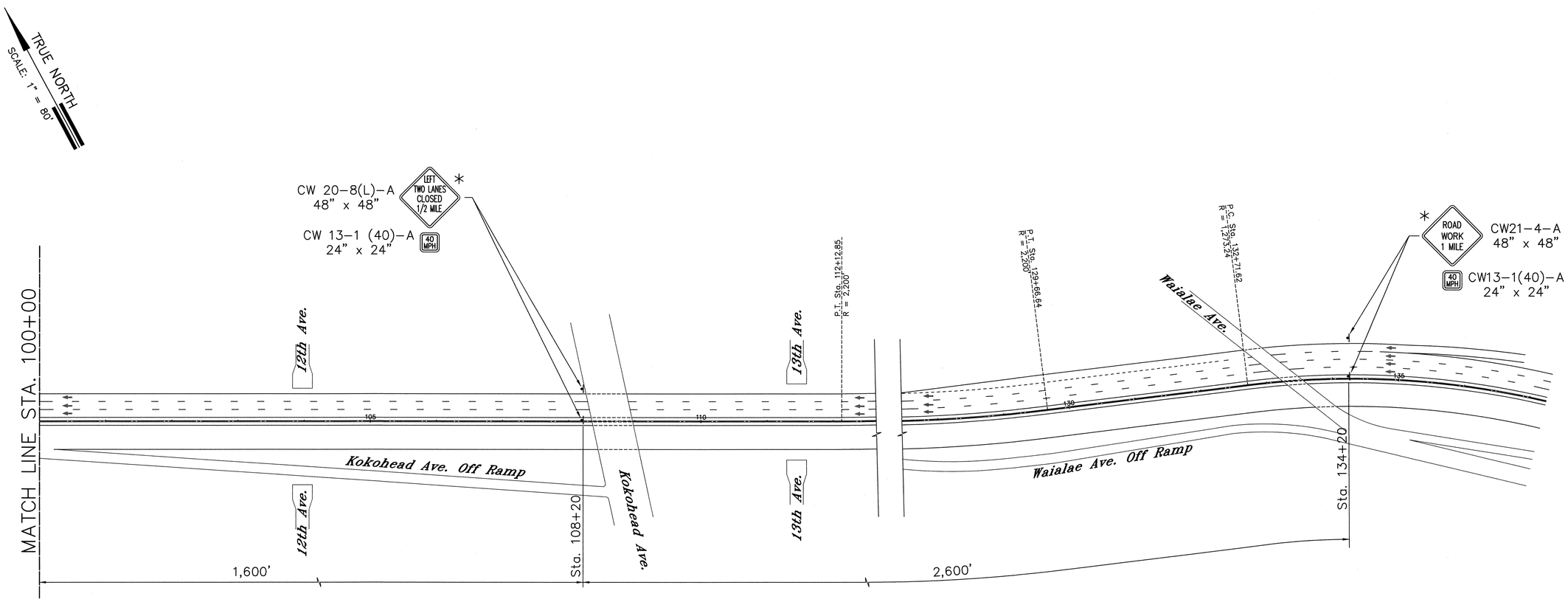
INTERSTATE ROUTE H-1 RESURFACING

Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

Scale: 1"=80' Date: June 1, 1999

SHEET NO. F35 OF 114 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	191	557



Estimated Quantities:

Pay Items:

Construction Sign with 2 Posts Marked with Asterisk (*) – 4 Each

Incidental Items:

Traffic Control Signs/Devices Without Asterisk (*)

* Construction Signs with 2 Posts Marked with Asterisk (*):
To be Installed at the Start of Left Lane Closed and to be Removed at the End of Phase B, Right Lane Closed. To be Paid Under Item 621.7200, Construction Warning Sign with 2 Posts – H-1 Freeway. All Other Traffic Control Signs/Devices Without Asterisk (*) are Incidental.

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TCP FOR PARTIAL FWY. CLOSURE (WB)

LEFT LANES CLOSED

INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

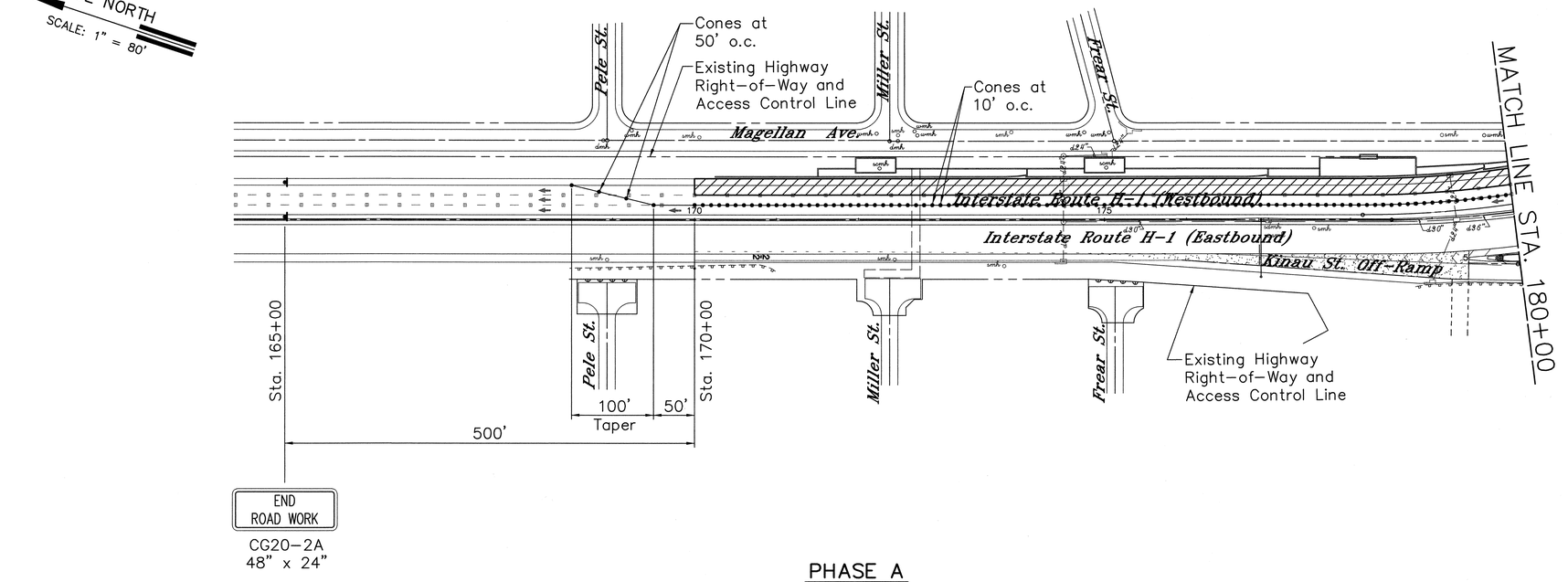
Scale: 1"=80' Date: June 1, 1999

SHEET NO. **F36** OF **114** SHEETS

PM: BST
OPER: SHA,*FAI
REVISED: 07/14/99
DATE: 10/19/98
SCALE: 1 = 80
FILE: 9518-112

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	192	557



PHASE A

Estimated Quantities:

Pay Items:

None

Incidental Items:

Traffic Control Signs/Devices Without Asterisk (*)

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TCP FOR PARTIAL FWY. CLOSURE (WB)

RIGHT LANES CLOSED

INTERSTATE ROUTE H-1 RESURFACING

Vic. of Punchbowl Off Ramp to Kapiolani IC

F.A.I Project No. IM-H1-1(234)

Scale: 1"=80' Date: June 1, 1999

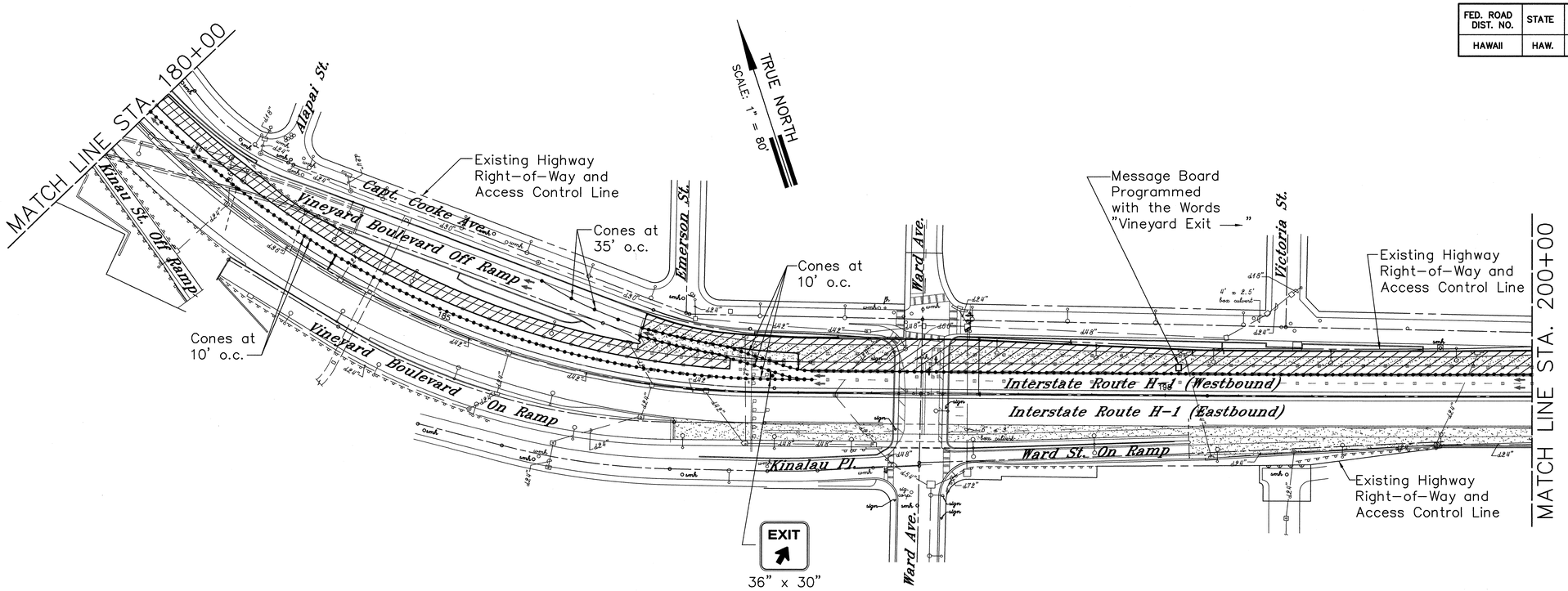
SHEET NO. F37 OF 114 SHEETS

PM: BST
OPER: SHA,*FAI
REVISED: 07/14/99

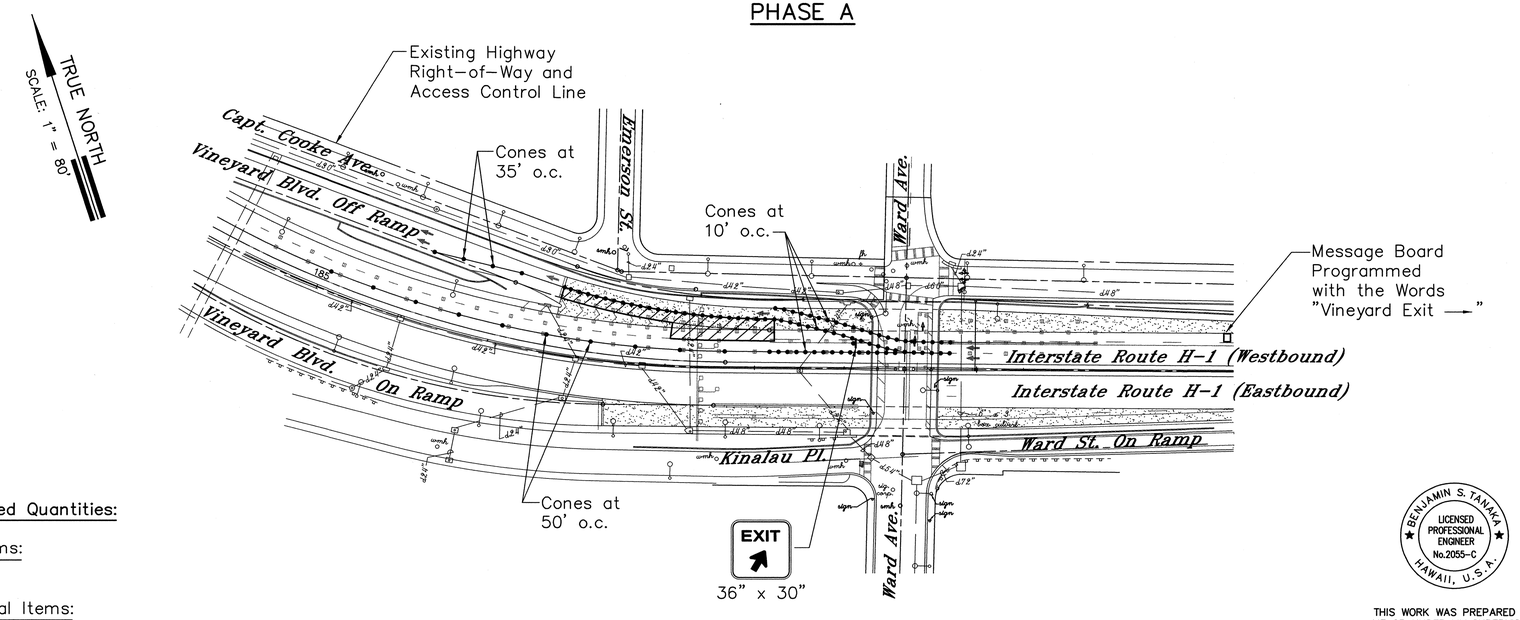
DATE: 10/23/98
SCALE: 1 = 80
FILE: 9815-135

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	193	557



PHASE A



PHASE B

Estimated Quantities:

Pay Items:

None

Incidental Items:

Traffic Control Signs/Devices Without Asterisk (*)

DATE: 10/26/98 PM: BST
SCALE: 1 = 80 OPER: FAI
FILE: 9815-136 REVISED: 07/14/99

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

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LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TCP FOR PARTIAL FWY. CLOSURE (WB)

RIGHT LANES CLOSED

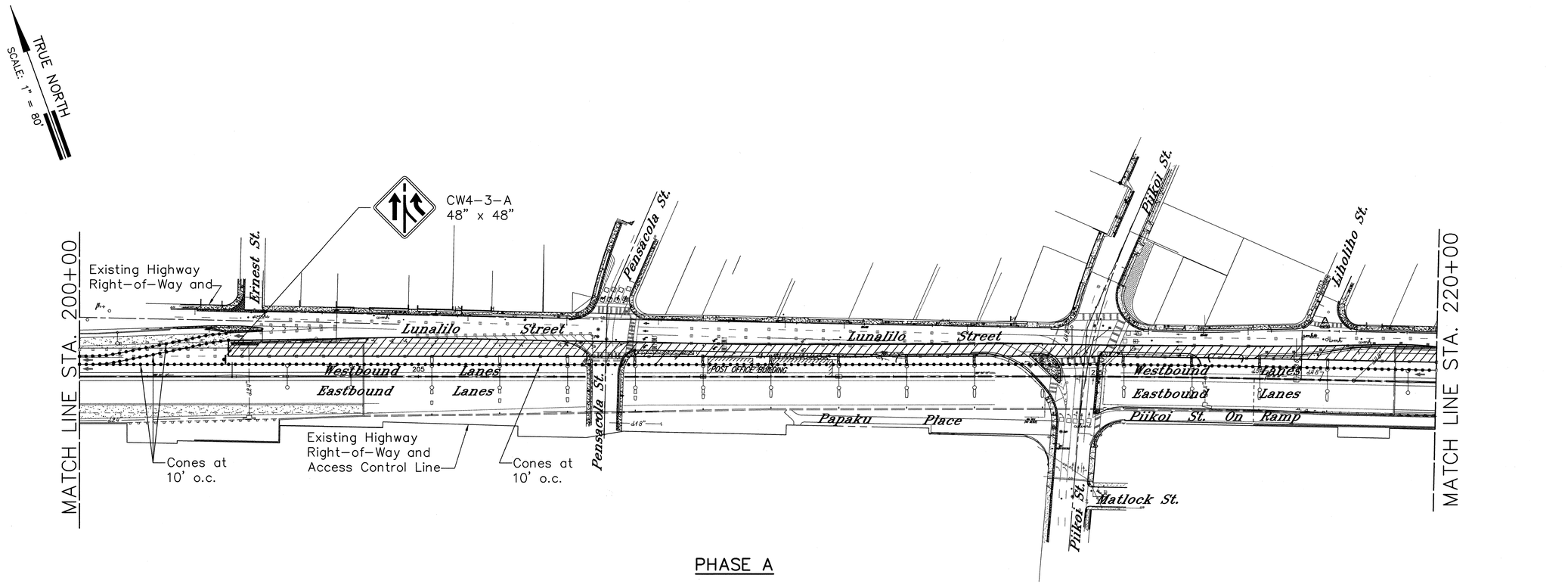
INTERSTATE ROUTE H-1 RESURFACING

Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

Scale: 1"=80' Date: June 1, 1999

SHEET NO. **F38** OF **114** SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	194	557



PHASE A

Estimated Quantities:

Pay Items:

None

Incidental Items:

Traffic Control Signs/Devices
Without Asterisk (*)

Note:

For Phase B, Close Off Lunalilo St. On Ramp to Perform Work at Ramp and at the Freeway Gore Area. See Sheet F49 for Further Details.

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TCP FOR PARTIAL FWY. CLOSURE (WB)

RIGHT LANES CLOSED

INTERSTATE ROUTE H-1 RESURFACING

Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

Scale: 1"=80' Date: June 1, 1999

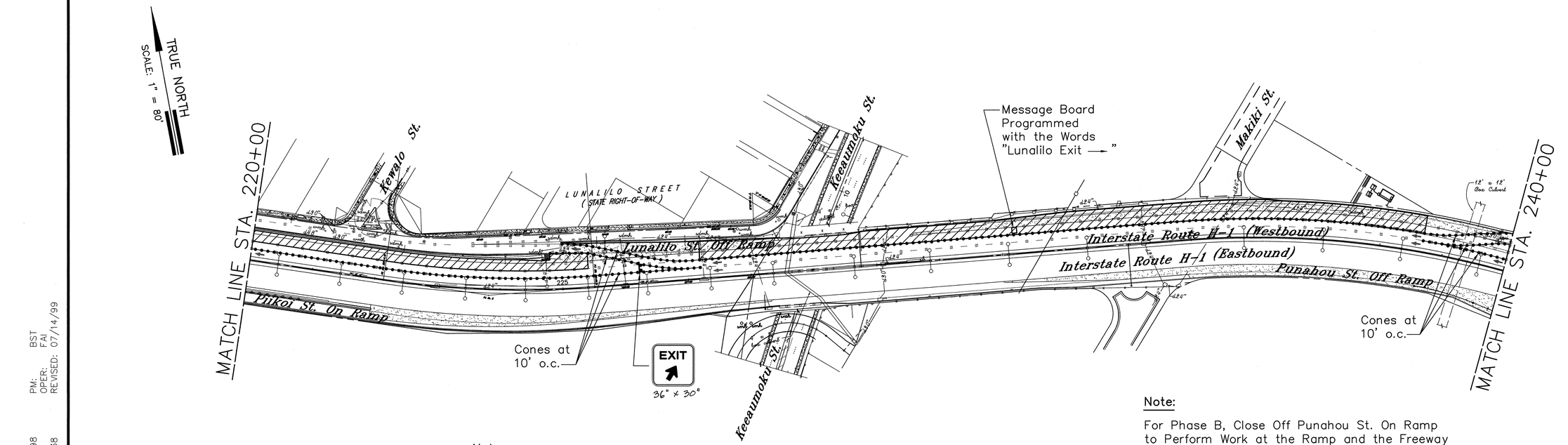
SHEET NO. **F39** OF **114** SHEETS

PM: BST
OPER: SHA,*FAI
REVISED: 07/14/99

DATE: 10/23/98
SCALE: 1 = 80
FILE: 9815-137

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	195	557



Note:

For Phase B, Close Off Lunalilo St. Off Ramp to Perform Work at the Ramp and the Freeway Gore Area. See Sheet F50 for Further Details.

Note:

For Phase B, Close Off Punahou St. On Ramp to Perform Work at the Ramp and the Freeway Gore Area. See Sheet F51 for Further Details.

PHASE A

Estimated Quantities:

Pay Items:

None

Incidental Items:

Traffic Control Signs/Devices Without Asterisk (*)

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TCP FOR PARTIAL FWY. CLOSURE (WB)

RIGHT LANES CLOSED

INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

Scale: 1"=80' Date: June 1, 1999

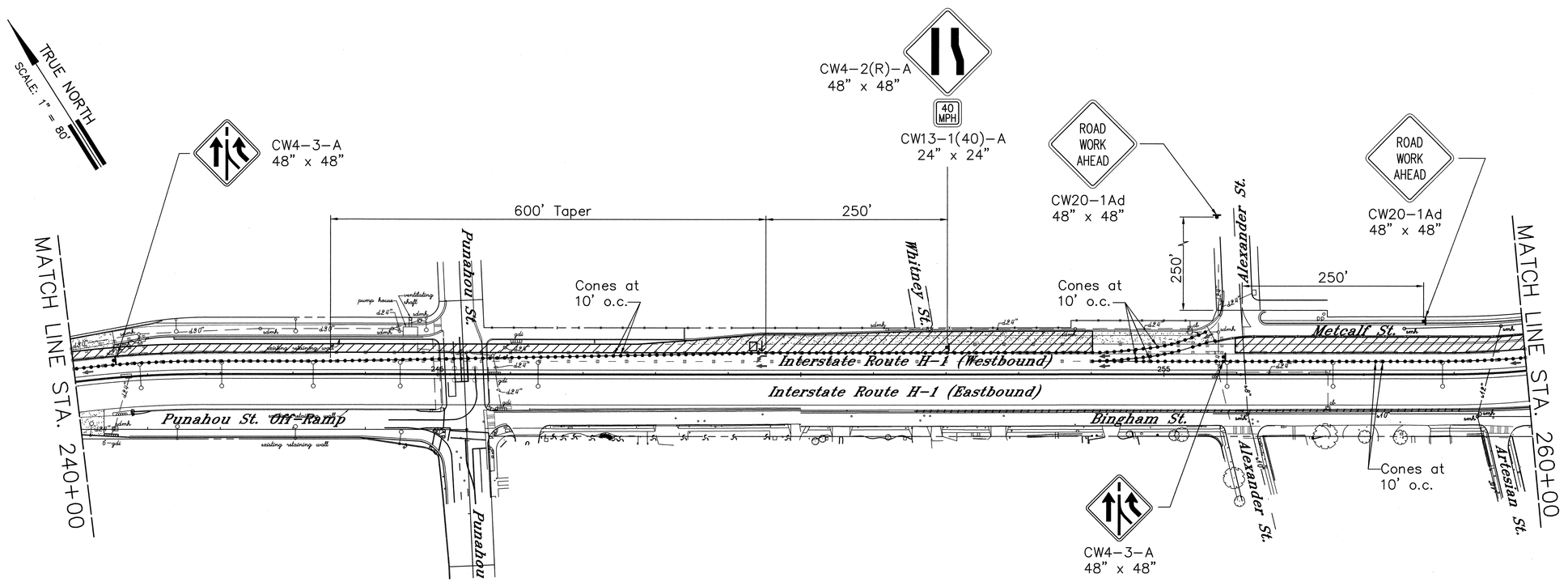
SHEET NO. **F40** OF **114** SHEETS

DATE: 10/23/98
SCALE: 1 = 80
FILE: 9815-138

PM: BST
OPER: FAI
REVISED: 07/14/99

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	196	557



PHASE A

Estimated Quantities:

Pay Items:

None

Incidental Items:

Traffic Control Signs/Devices
Without Asterisk (*)

Note:

For Phase B, Close Off Alexander St. On Ramp to Perform Work at the Ramp and at the Freeway Gore Area. See Sheet F51 for Further Details.

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No.2055-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TCP FOR PARTIAL FWY. CLOSURE (WB)
RIGHT LANES CLOSED
INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

Scale: 1"=80' Date: June 1, 1999

SHEET NO. **F41** OF **114** SHEETS

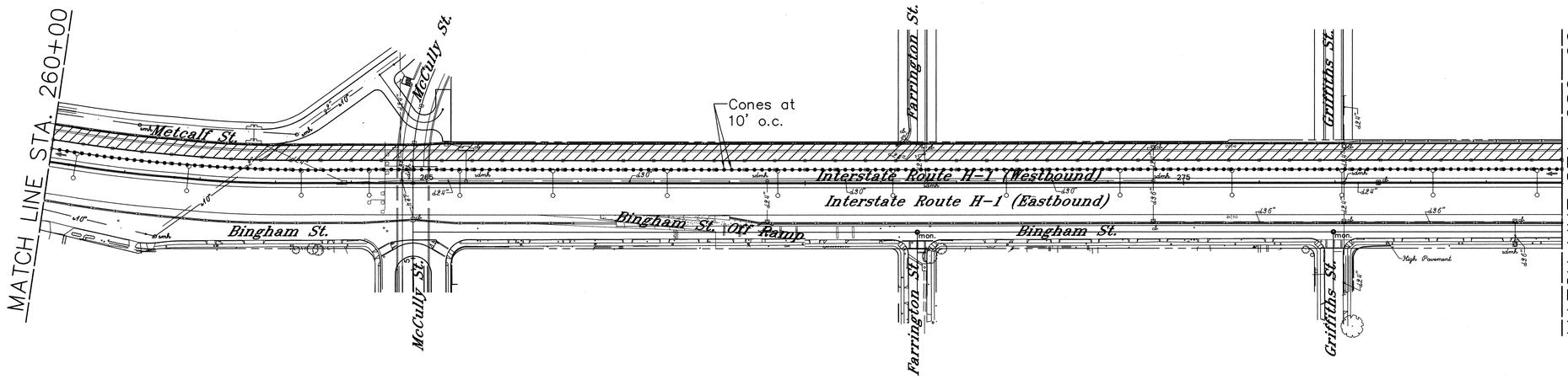
PM: BST
OPER: SHA,*FAI
REVISED: 07/14/99

DATE: 10/23/98
SCALE: 1 = 80
FILE: 9815-139

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	197	557

TRUE NORTH
SCALE: 1" = 80'



PHASE A

Estimated Quantities:

Pay Items:

None

Incidental Items:

Traffic Control Signs/Devices
Without Asterisk (*)

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TCP FOR PARTIAL FWY. CLOSURE (WB)
RIGHT LANES CLOSED
INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

Scale: 1"=80' Date: June 1, 1999

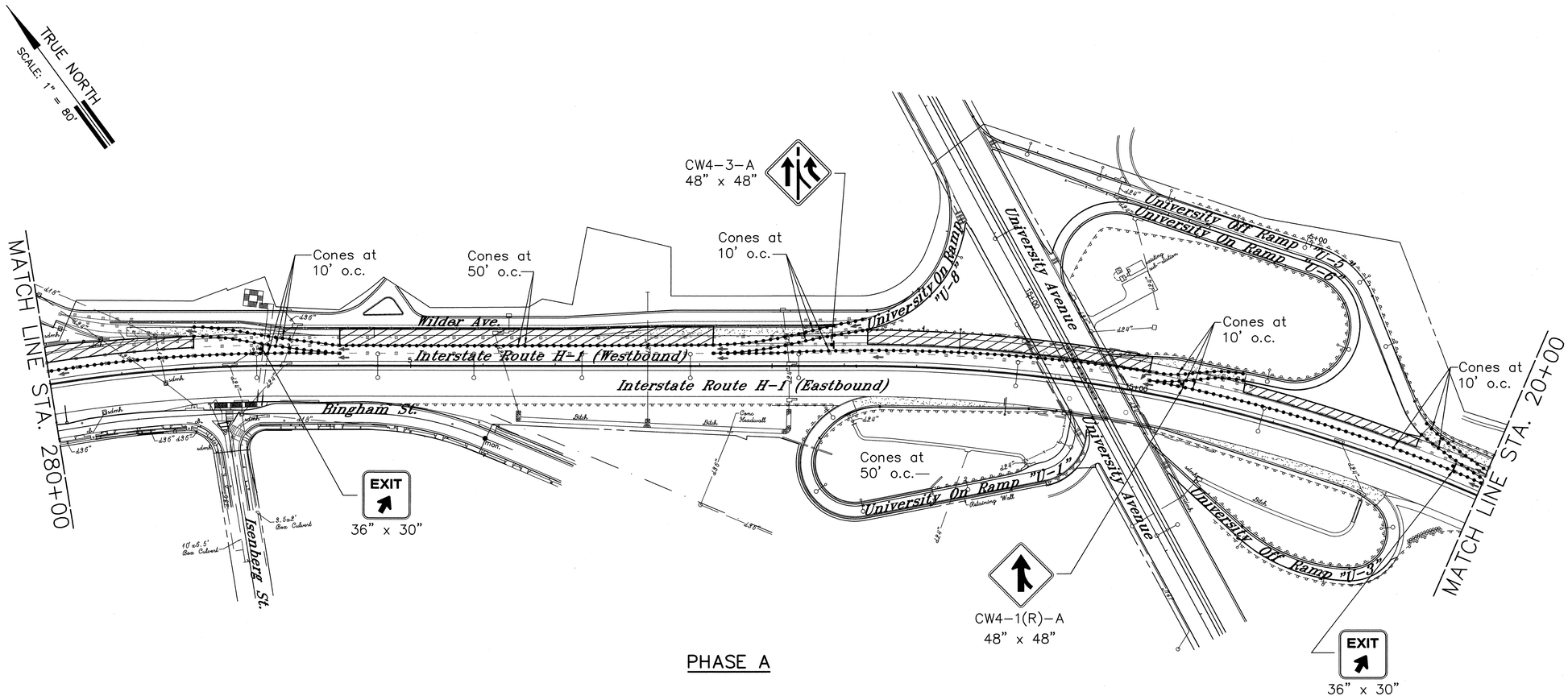
SHEET NO. **F42** OF **114** SHEETS

PM: BST
OPER: SHA,*FAI
REVISED: 07/14/99

DATE: 10/27/98
SCALE: 1 = 80
FILE: 9815-140

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	198	557



PHASE A

PM: BST
OPER: SHA,*FAI
REVISED: 07/14/99

DATE: 10/23/98
SCALE: 1 = 80
FILE: 9815-141

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

Estimated Quantities:

Pay Items:

None

Incidental Items:

Traffic Control Signs/Devices
Without Asterisk (*)

Note:

For Phase B, Close Off Wilder Avenue Off Ramp, University On Ramp and Off Ramp to Perform Work at the Ramps and at the Freeway Gore Area. See Sheets F52, F53, and F54 for Further Details.

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TCP FOR PARTIAL FWY. CLOSURE (WB)

RIGHT LANES CLOSED

INTERSTATE ROUTE H-1 RESURFACING

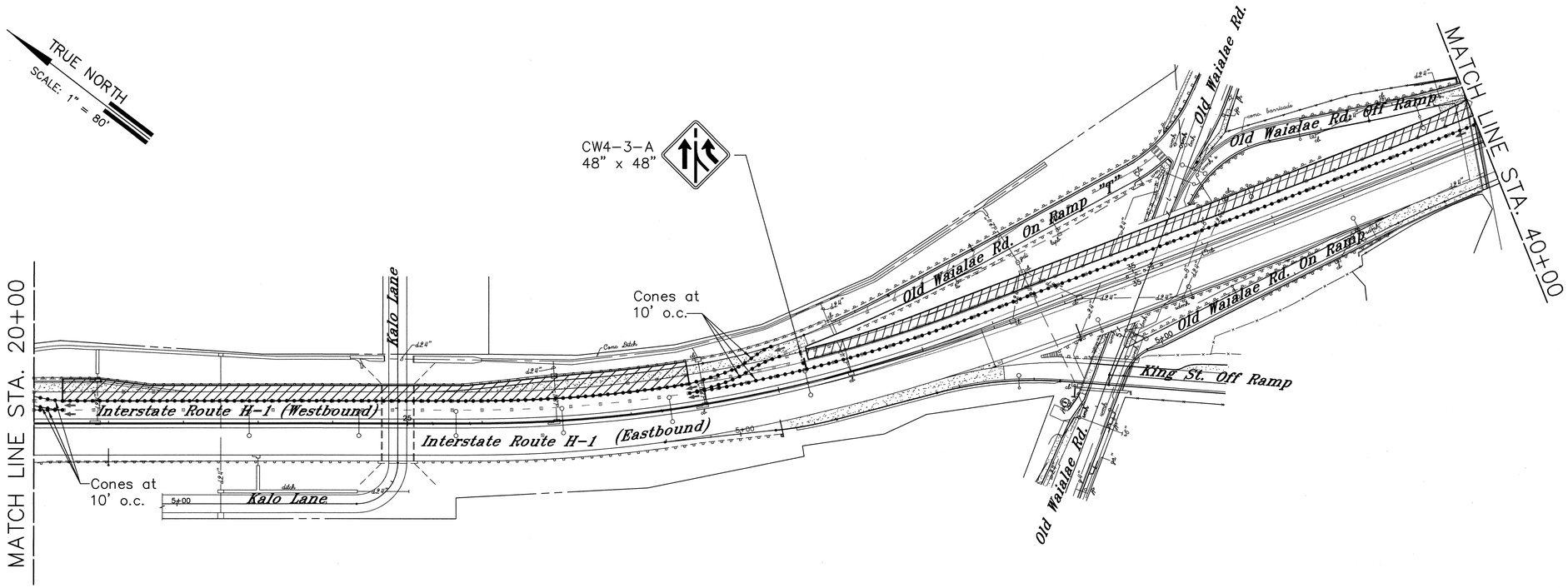
Vic. of Punchbowl Off Ramp to Kapiolani IC

F.A.I Project No. IM-H1-1(234)

Scale: 1"=80' Date: June 1, 1999

SHEET NO. **F43** OF **114** SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	199	557



PHASE A

Estimated Quantities:

Pay Items:

None

Incidental Items:

Traffic Control Signs/Devices Without Asterisk (*)

Note:

For Phase B, Close Off Old Waialae Road On Ramp to Perform Work at the Ramp and at the Freeway Gore Area. See Sheet F55 for Further Details.

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TCP FOR PARTIAL FWY. CLOSURE (WB)

RIGHT LANES CLOSED

INTERSTATE ROUTE H-1 RESURFACING

Vic. of Punchbowl Off Ramp to Kapiolani IC

F.A.I Project No. IM-H1-1(234)

Scale: 1"=80' Date: June 1, 1999

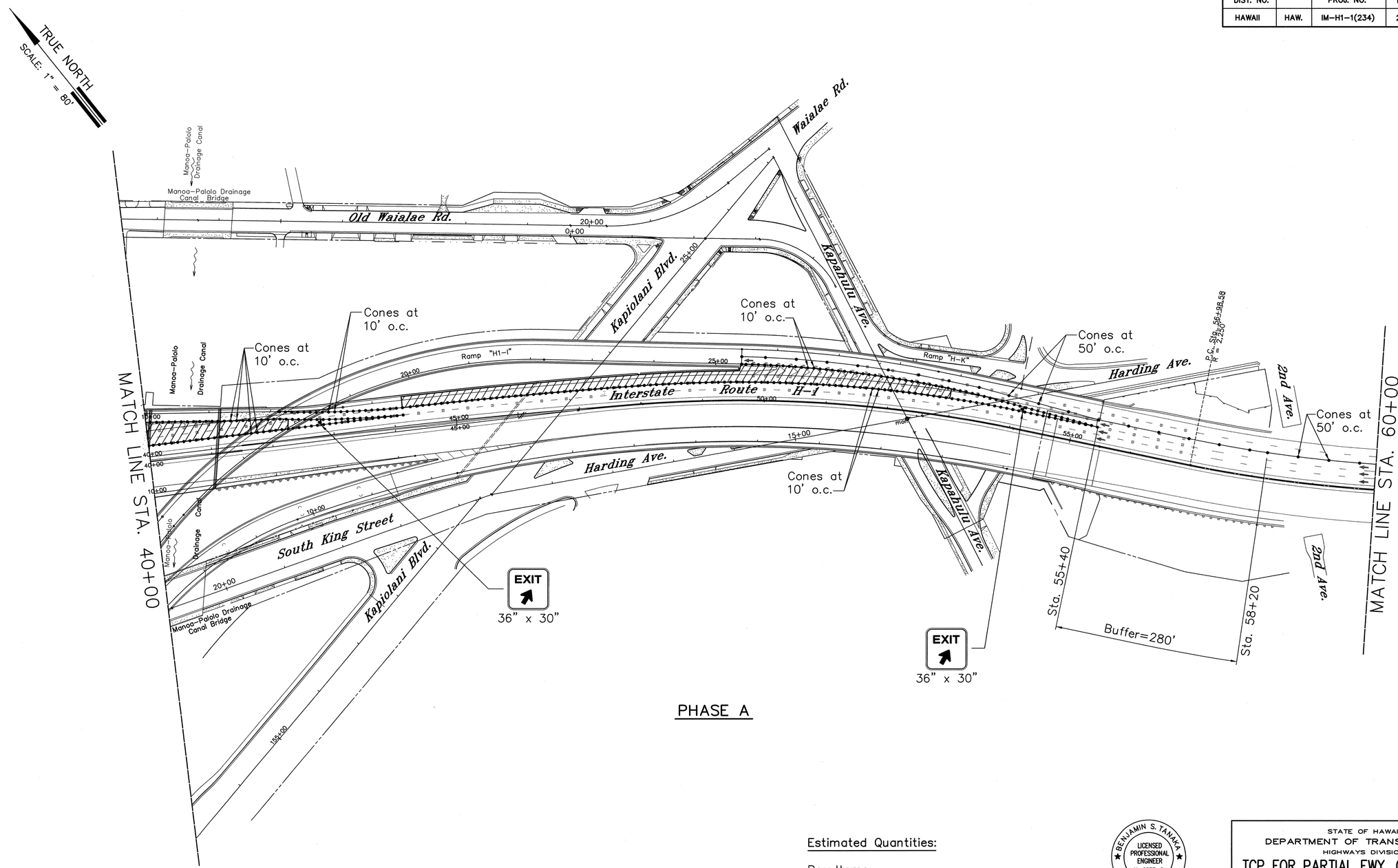
SHEET NO. **F44** OF **114** SHEETS

DATE: 10/27/98
SCALE: 1 = 80
FILE: 9815-142

PM: BST
OPER: SHA,*FAI
REVISED: 07/14/99

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	200	557



PHASE A

Estimated Quantities:

Pay Items:

None

Incidental Items:

Traffic Control Signs/Devices
Without Asterisk (*)

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TCP FOR PARTIAL FWY. CLOSURE (WB)

RIGHT LANES CLOSED

INTERSTATE ROUTE H-1 RESURFACING

Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

Scale: 1"=80' Date: June 1, 1999

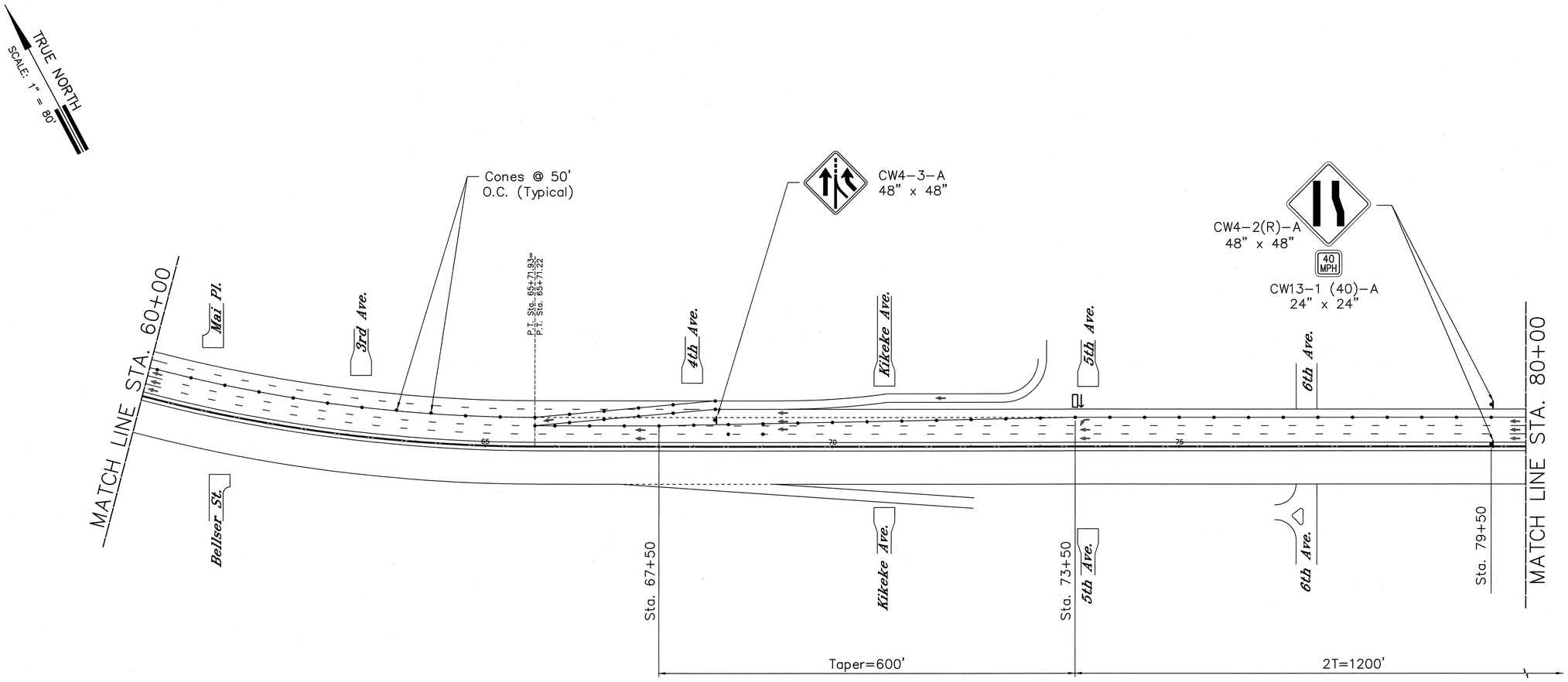
SHEET NO. **F45** OF **114** SHEETS

DATE: 9/19/98
SCALE: 1 = 80
FILE: 9815-89

PM: BST
OPER: SHA,*FAI
REVISED: 07/14/99

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	201	557



PM: BST
OPER: SHA.FAI.*BTY
REVISED: 07/16/99
DATE: 9/19/98
SCALE: 1 = 80
FILE: 9815-176

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

Estimated Quantities:

Pay Items:

None

Incidental Items:

Traffic Control Signs/Devices Without Asterisk (*)

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TCP FOR PARTIAL FWY. CLOSURE (WB)

RIGHT LANES CLOSED

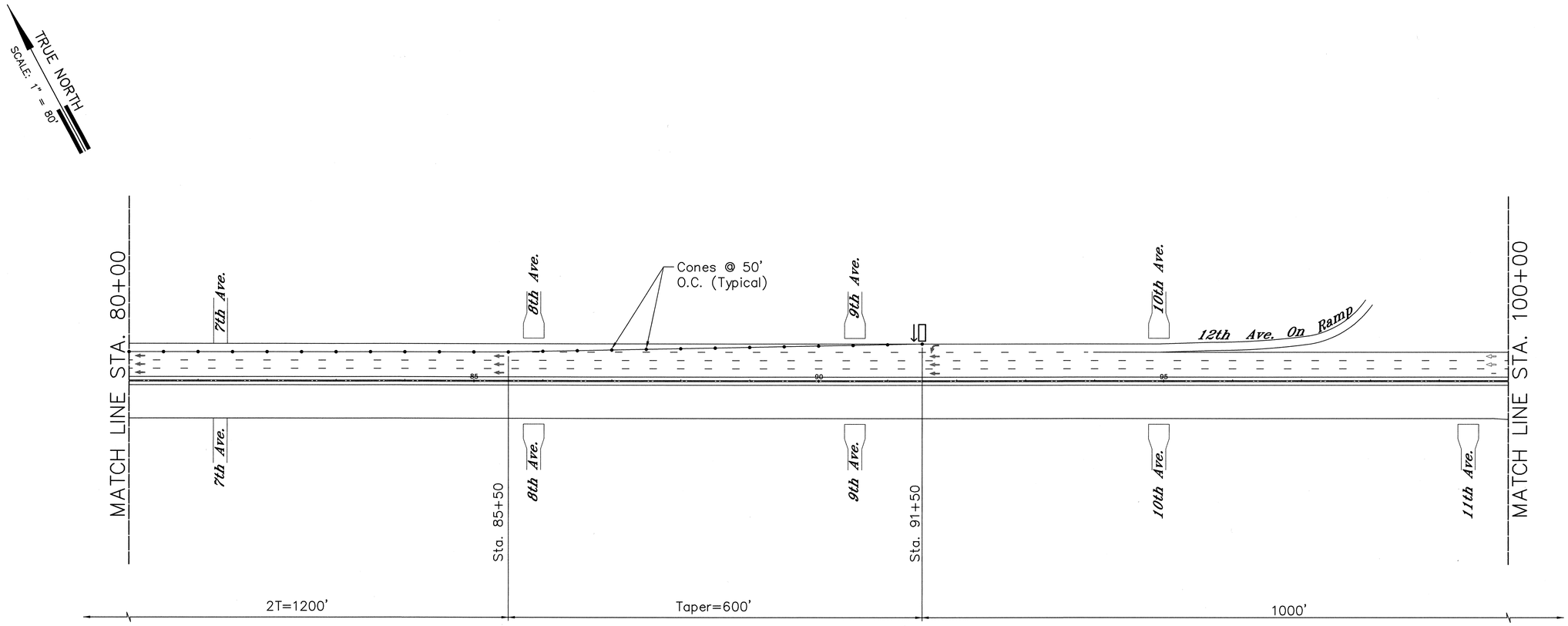
INTERSTATE ROUTE H-1 RESURFACING

Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

Scale: 1"=80' Date: June 1, 1999

SHEET NO. **F46** OF **114** SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	202	557



PM: BST
OPER: SHA,FAI,BTY
REVISED: 07/19/99

DATE: 9/19/98
SCALE: 1 = 80
FILE: 9815-177

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

Estimated Quantities:

Pay Items:

None

Incidental Items:

Traffic Control Signs/Devices Without Asterisk (*)

BENJAMIN S. TANAKA ★ LICENSED PROFESSIONAL ENGINEER No.2055-C ★ HAWAII, U.S.A.

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Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TCP FOR PARTIAL FWY. CLOSURE (WB)

RIGHT LANES CLOSED

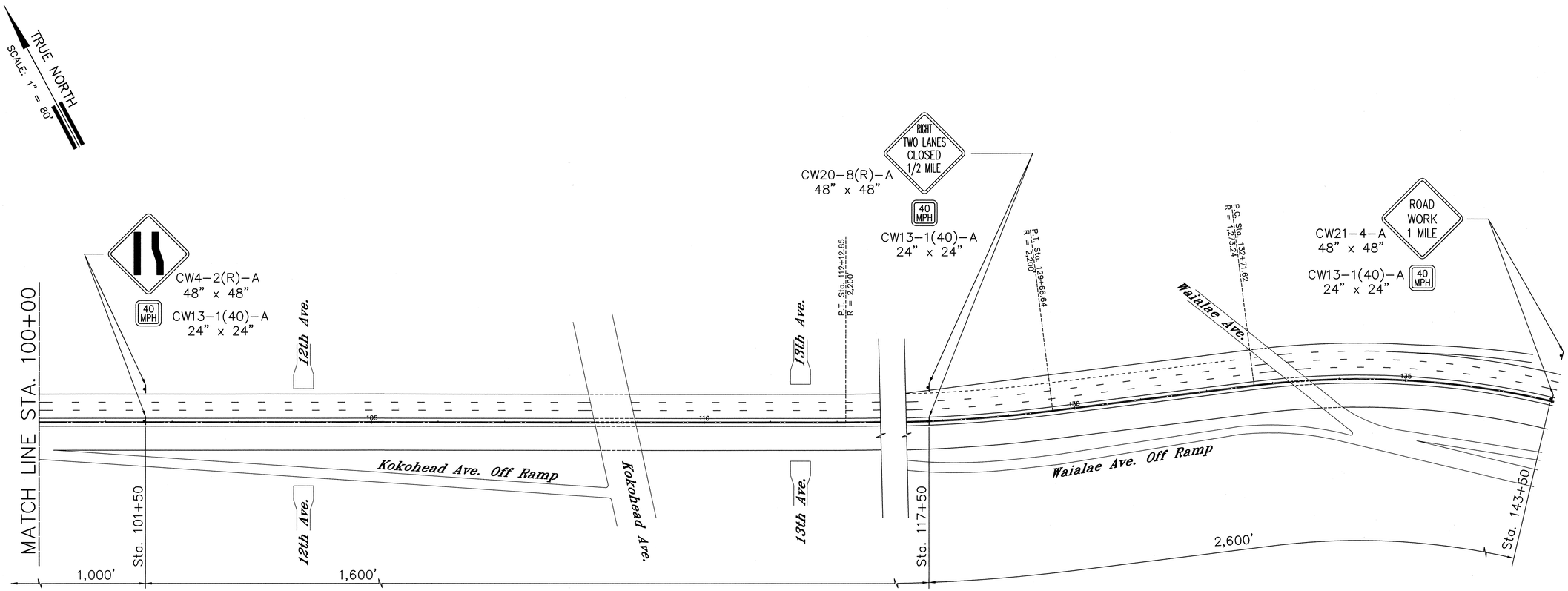
INTERSTATE ROUTE H-1 RESURFACING

Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

Scale: 1"=80' Date: June 1, 1999

SHEET NO. **F47** OF **114** SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	203	557



PM: BST
OPER: SHA,+FAI
REVISED: 07/14/99

DATE: 9/19/98
SCALE: 1 = 80
FILE: 9815-178

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

Estimated Quantities:

Pay Items:

None

Incidental Items:

Traffic Control Signs/Devices
Without Asterisk (*)

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TCP FOR PARTIAL FWY. CLOSURE (WB)

RIGHT LANES CLOSED

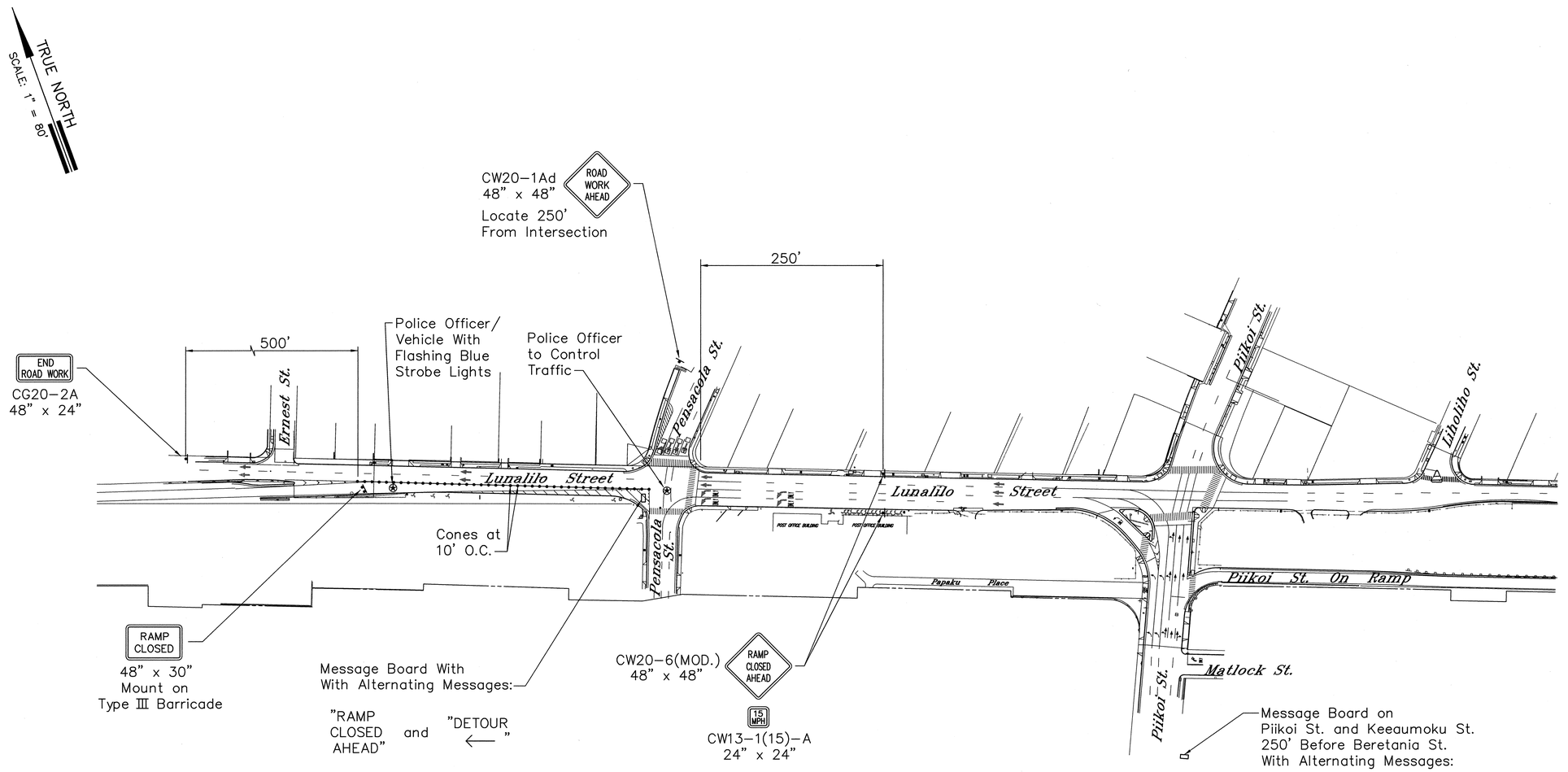
INTERSTATE ROUTE H-1 RESURFACING

Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

Scale: 1"=80' Date: June 1, 1999

SHEET NO. **F48** OF **114** SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	204	557



ROTATED: 20° 00' 0.08" AT 0,0
DATE: 10/27/98
SCALE: 1 = 80
FILE: 9815-143
PM: BST
OPER: FAI
REVISED: 07/14/99

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

Estimated Quantities:

Pay Items:

None

Incidental Items:

Traffic Control Signs/Devices Without Asterisk (*)
Type III Barricade – 1 Each
Police Officers

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TCP FOR PARTIAL FWY. CLOSURE (WB)

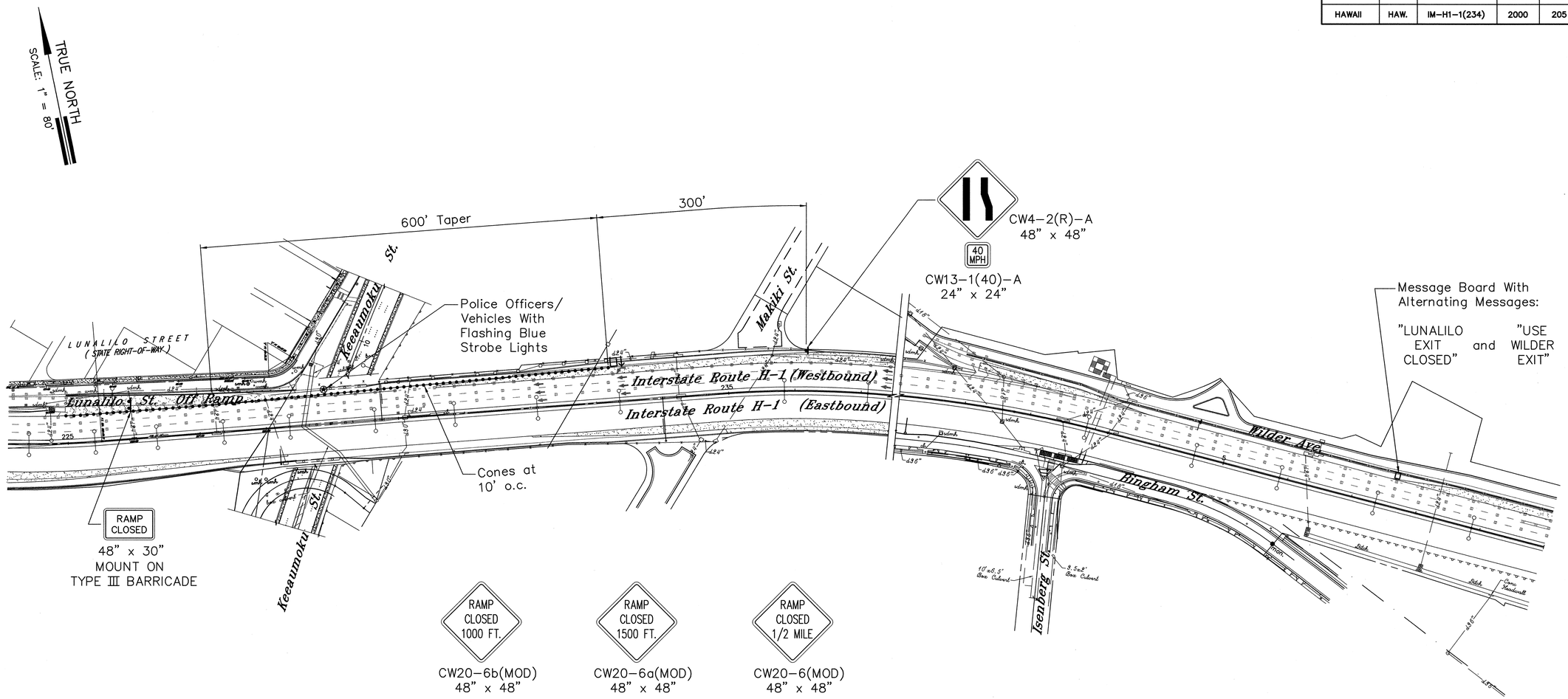
RAMP CLOSURES

INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

Scale: 1"=80' Date: June 1, 1999

SHEET NO. **F49** OF **114** SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	205	557



PM: BST
OPER: FAI
REVISED: 07/14/99
DATE: 10/23/98
SCALE: 1 = 80
FILE: 9815-144

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

Estimated Quantities:

Pay Items:

None

Incidental Items:

Traffic Control Signs/Devices Without Asterisk (*)
Type III Barricade – 1 Each
Police Officers

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

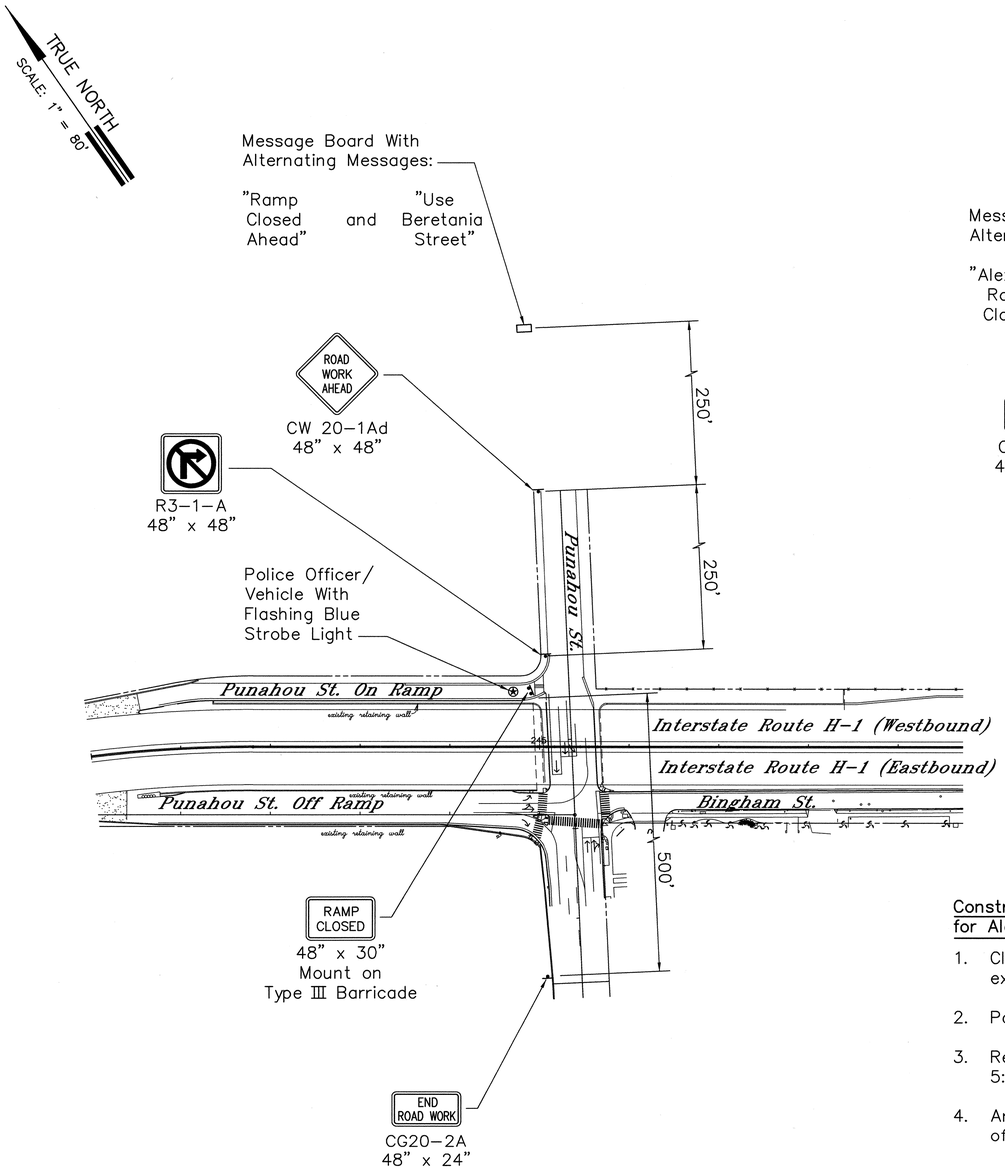
TCP FOR PARTIAL FWY. CLOSURE (WB)

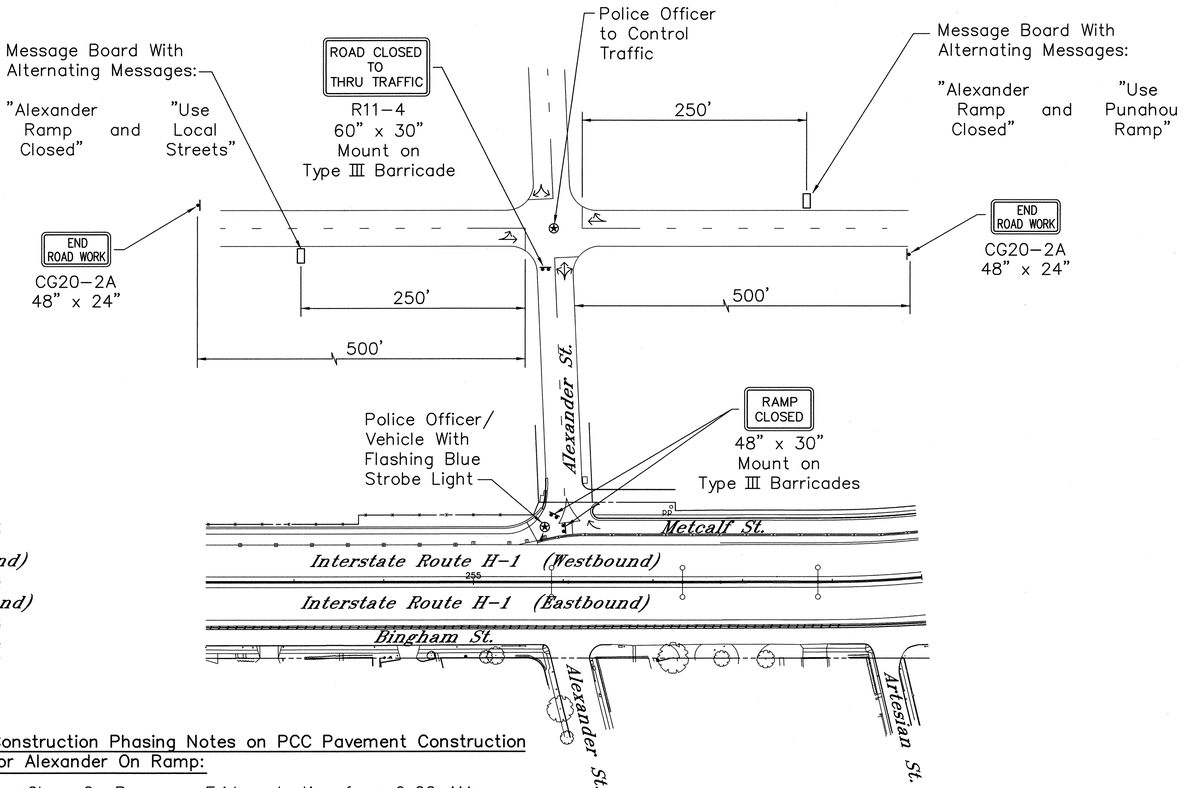
RAMP CLOSURES

INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)
Scale: 1"=80' Date: June 1, 1999

SHEET NO. F50 OF 114 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	206	557





DATE: 10/27/98 PM: BST
SCALE: 1 = 80 OPER: FAI
FILE: 9815-145 REVISED: 07/14/99

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

Construction Phasing Notes on PCC Pavement Construction for Alexander On Ramp:

1. Close On Ramp on Friday starting from 9:00 AM; excavate for 18' wide PCC pavement.
2. Pour PCC pavement Saturday morning after 7:00 AM.
3. Re-open On Ramp to traffic by Monday morning by 5:00 AM, at the latest.
4. Any changes to the schedule will be at the discretion of the Engineer.

Estimated Quantities:

Pay Items:

None

Incidental Items:

Traffic Control Signs/Devices Without Asterisk (*)
Type III Barricades – 4 Each
Police Officers

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

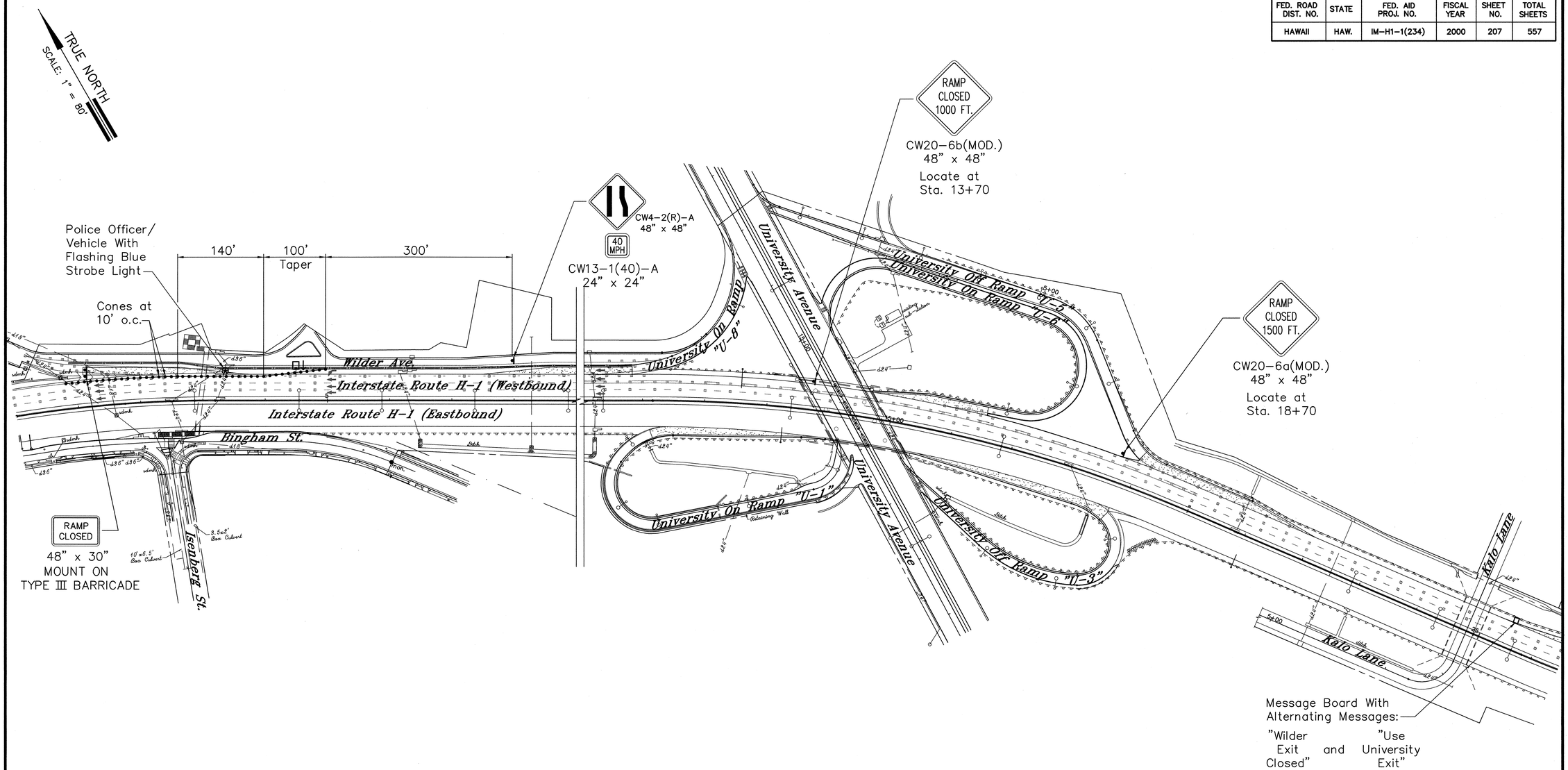
TCP FOR PARTIAL FWY. CLOSURE (WB)

RAMP CLOSURES

INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)
Scale: 1"=80' Date: June 1, 1999

SHEET NO. F51 OF 114 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	207	557



DATE: 10/27/98
SCALE: 1 = 80
FILE: 9815-146

PM: BST
OPER: FAI
REVISED: 07/14/99

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

Estimated Quantities:

Pay Items:

None

Incidental Items:

Traffic Control Signs/Devices Without Asterisk (*)
Type III Barricade – 1 Each
Police Officers

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TCP FOR PARTIAL FWY. CLOSURE (WB)

RAMP CLOSURES

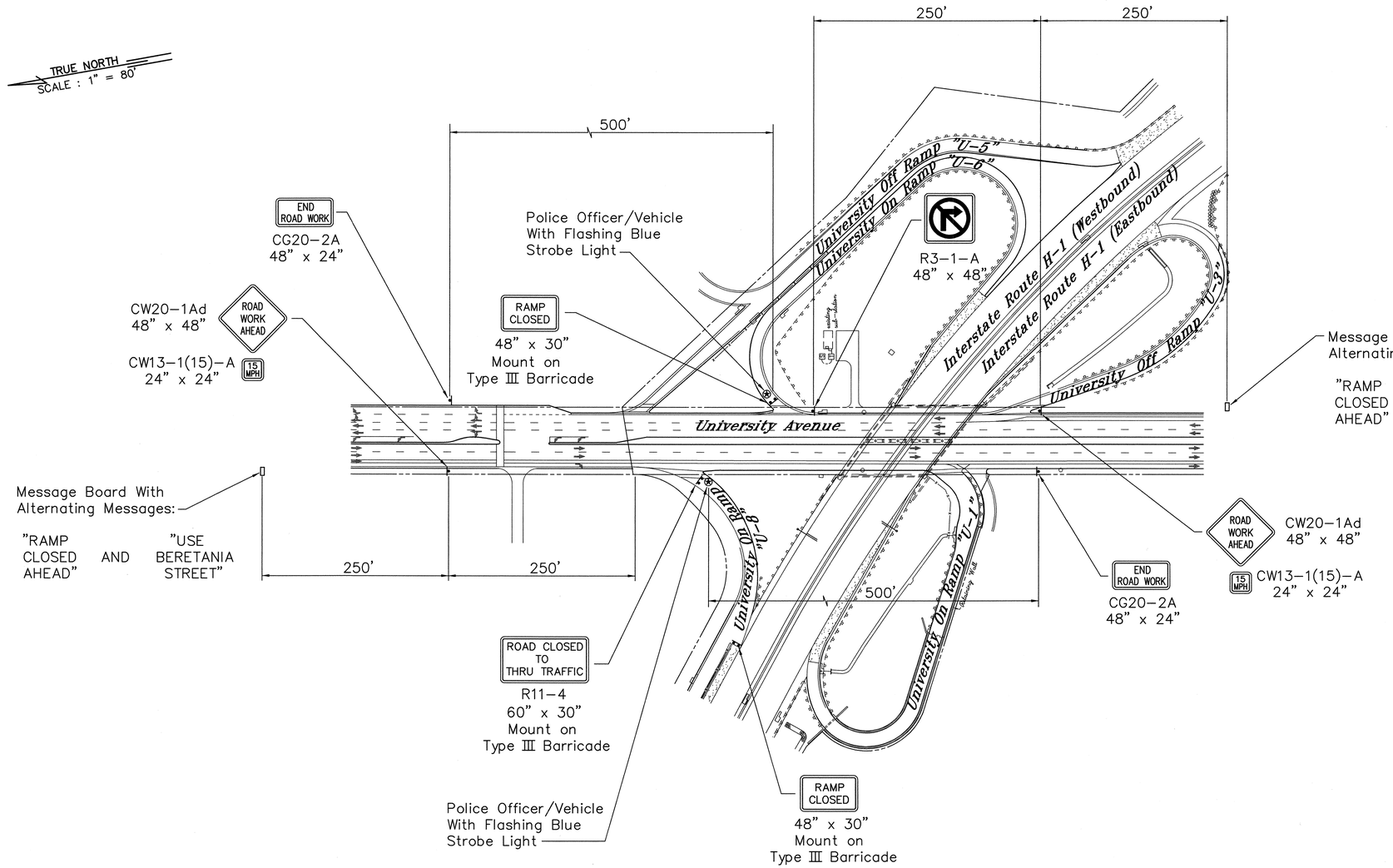
INTERSTATE ROUTE H-1 RESURFACING

Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

Scale: 1"=80' Date: June 1, 1999

SHEET NO. **F52** OF **114** SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	208	557



PM: BST
OPER: FAI
REVISED: 07/14/99

DATE: 10/27/98
SCALE: 1 = 80
FILE: 9815-147

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

Estimated Quantities:

Pay Items:

None

Incidental Items:

Traffic Control Signs/Devices Without Asterisk (*)
Type III Barricades – 3 Each
Police Officers

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TCP FOR PARTIAL FWY. CLOSURE (WB)

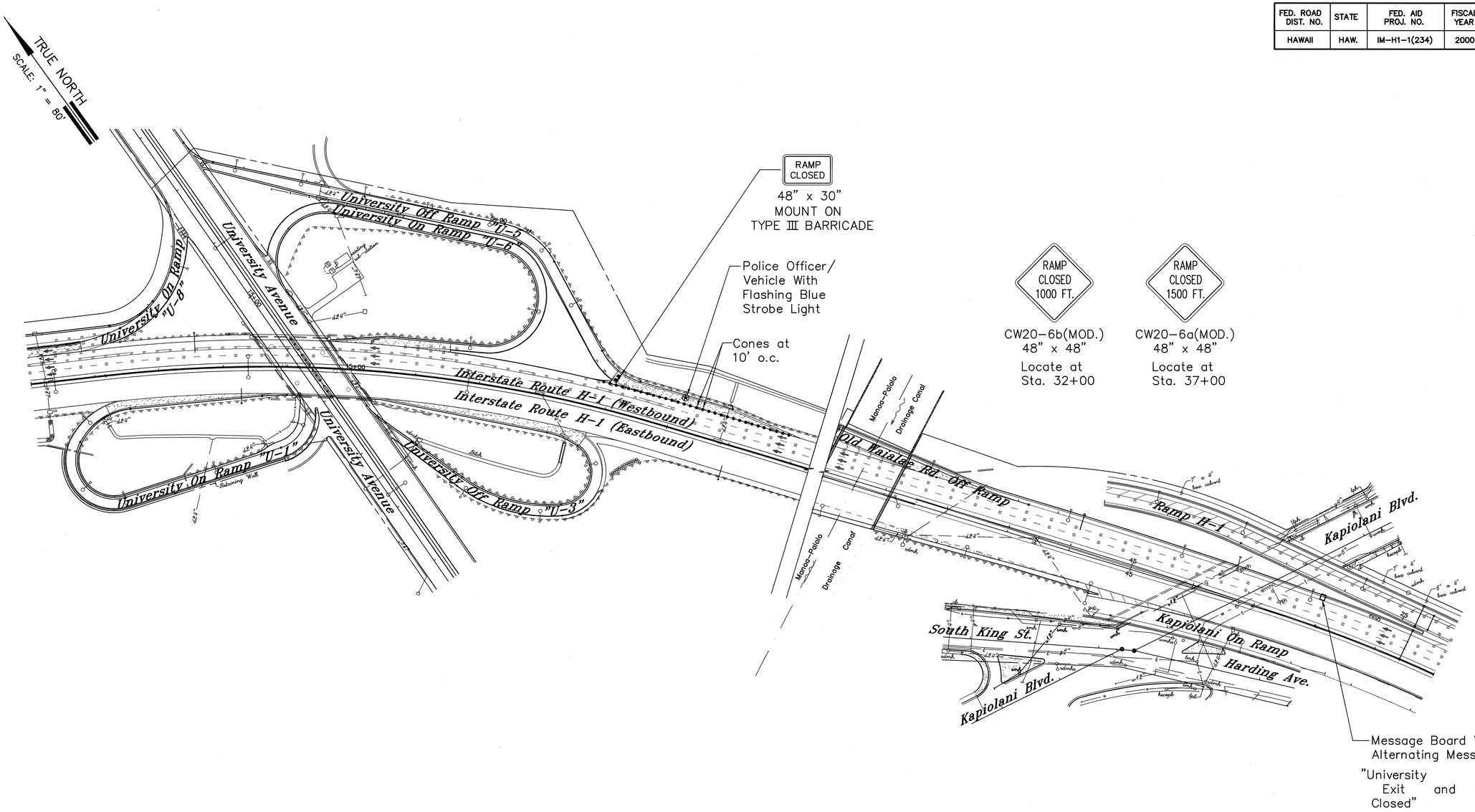
RAMP CLOSURES

INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

Scale: 1"=80' Date: June 1, 1999

SHEET NO. **F53** OF **114** SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	209	557



DATE: 10/27/98 PM: BST
SCALE: 1 = 80 OPER: FAI
FILE: 9815-148 REVISED: 07/14/99

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

Estimated Quantities:

Pay Items:

None

Incidental Items:

Traffic Control Signs/Devices Without Asterisk (*)
Type III Barricade – 1 Each
Police Officers

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TCP FOR PARTIAL FWY. CLOSURE (WB)

RAMP CLOSURES

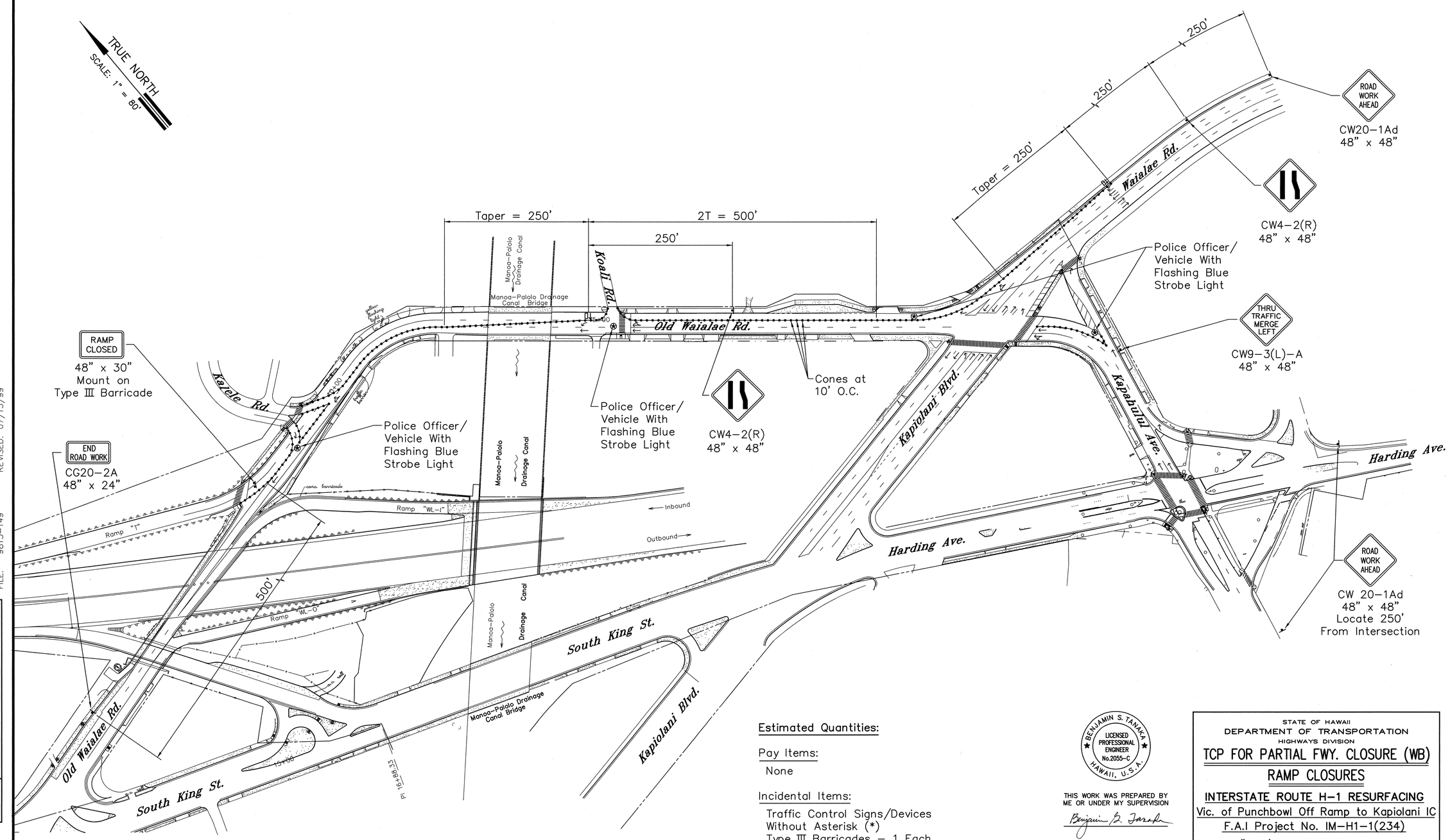
INTERSTATE ROUTE H-1 RESURFACING

Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

Scale: 1"=80' Date: June 1, 1999

SHEET NO. **F54** OF **114** SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	210	557



DATE: 10/27/98
SCALE: 1 = 80
FILE: 9815-149

PM: BST
OPER: *SHA,FAI
REVISED: 07/15/99

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

Estimated Quantities:

Pay Items:

None

Incidental Items:

Traffic Control Signs/Devices Without Asterisk (*)
Type III Barricades – 1 Each
Police Officers

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

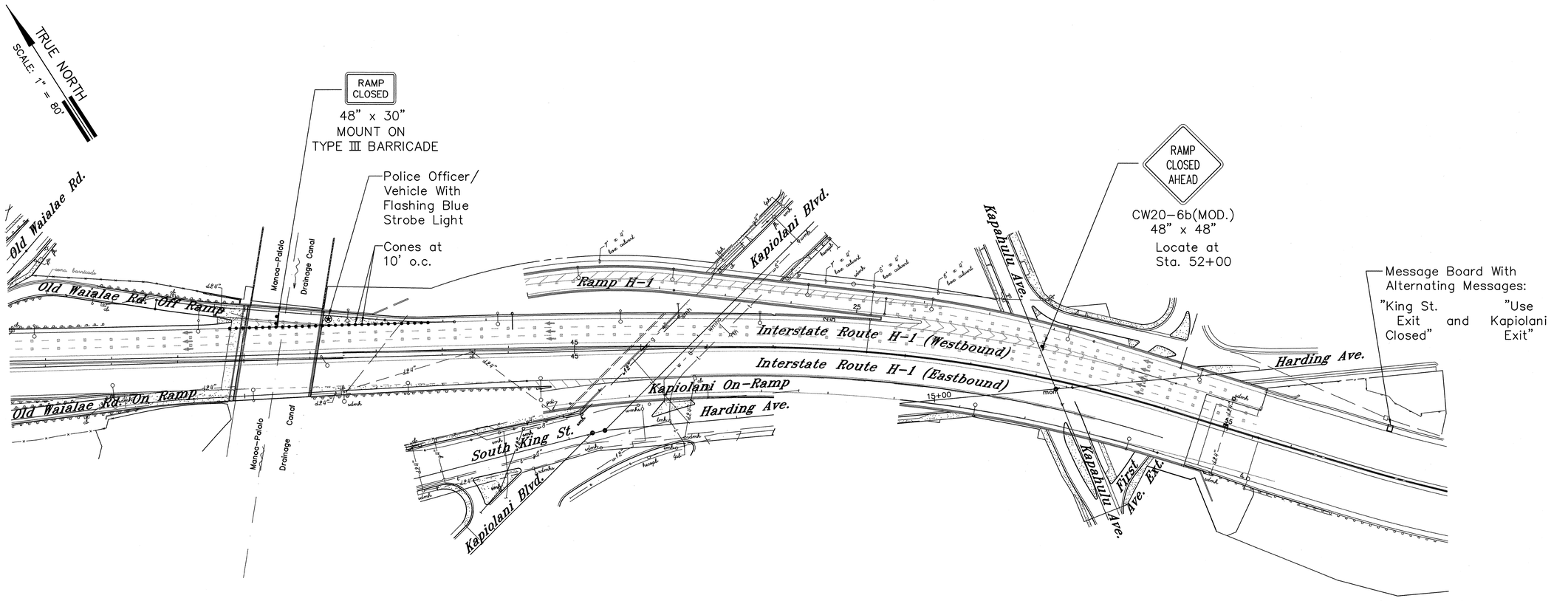
TCP FOR PARTIAL FWY. CLOSURE (WB)
RAMP CLOSURES
INTERSTATE ROUTE H-1 RESURFACING

Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

Scale: 1"=80' Date: June 1, 1999

SHEET NO. **F55** OF **114** SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	211	557



Estimated Quantities:

Pay Items:

None

Incidental Items:

Traffic Control Signs/Devices Without Asterisk (*)
Type III Barricades – 1 Each
Police Officers

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TCP FOR PARTIAL FWY. CLOSURE (WB)

RAMP CLOSURES

INTERSTATE ROUTE H-1 RESURFACING

Vic. of Punchbowl Off Ramp to Kapiolani IC

F.A.I Project No. IM-H1-1(234)

Scale: 1"=80' Date: June 1, 1999

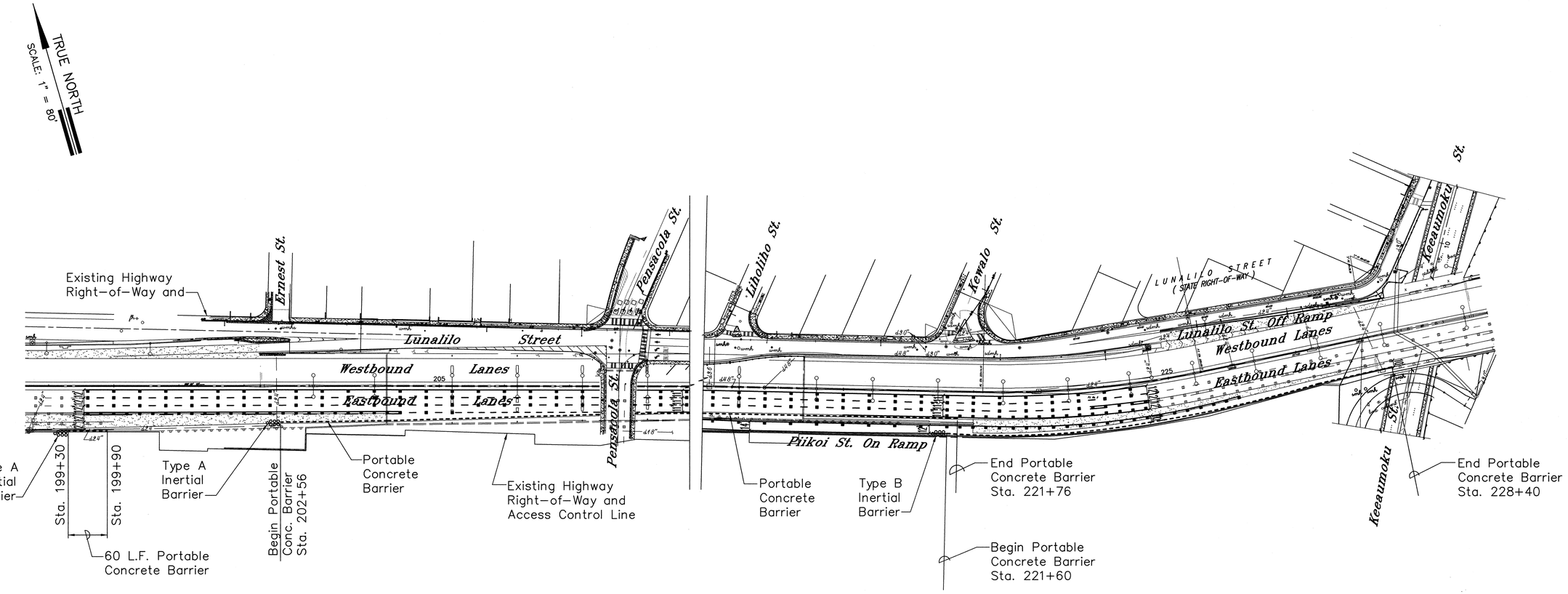
SHEET NO. F56 OF 114 SHEETS

PM: BST
OPER: *SHA.FAI
REVISED: 07/15/99

DATE: 10/27/98
SCALE: 1 = 80
FILE: 9815-150

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	212	557



* Refer to Details on Sheets F62 and F63 for Number and Types of Barrels and Section 647 of the Specifications for Basis of Payment.

Estimated Quantities:

Pay Items:

Furnish and Install New
Portable Concrete Barriers – 134 Each
Type A Inertial Barrier System – 2 Each*

Incidental Items:

Traffic Control Signs/Devices
Without Asterisk (*)

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN
TEMPORARY STRIPING PLAN (EB)

INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

Scale: 1"=80' Date: June 1, 1999

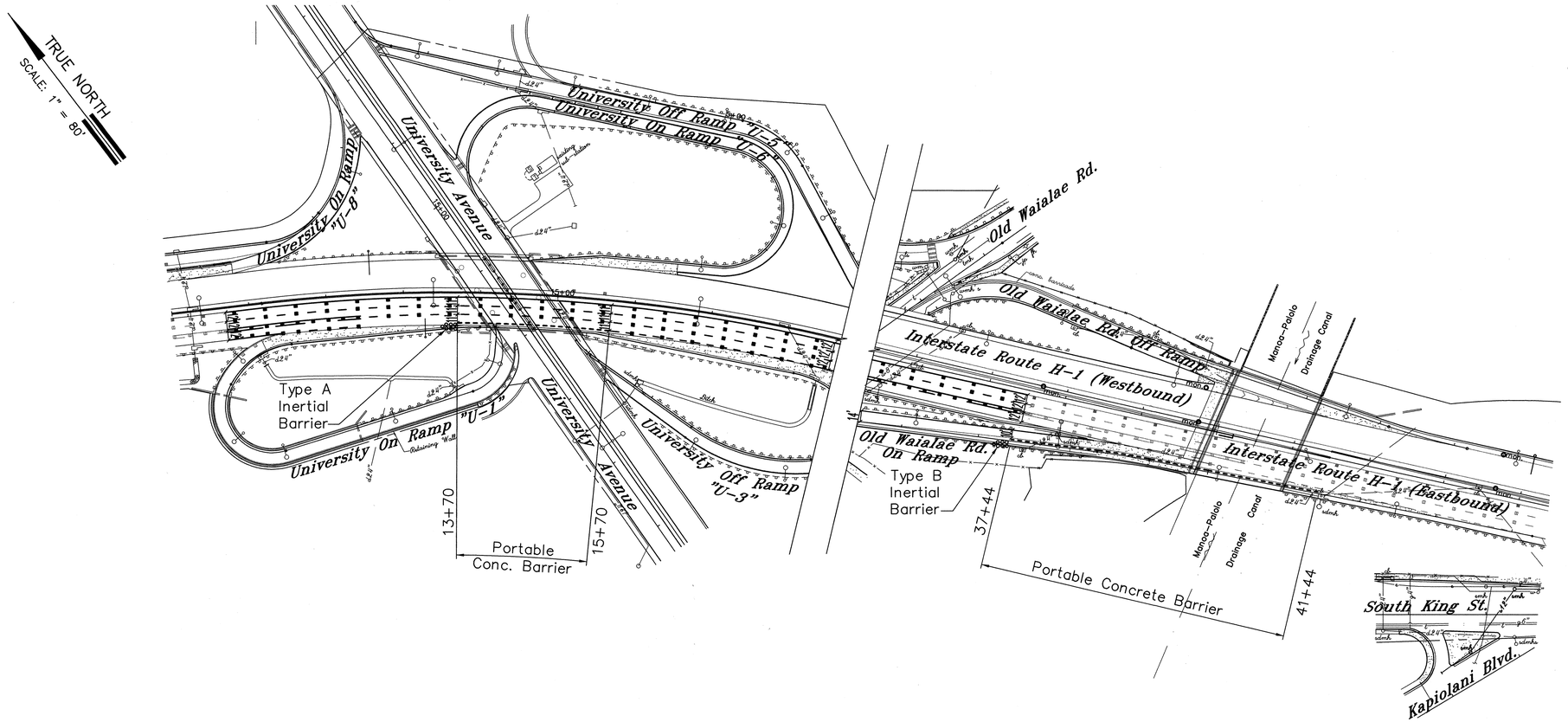
SHEET NO. F57 OF 114 SHEETS

PM: BST
OPER: *SHA.FAI
REVISED: 07/15/99

DATE: 10/273/98
SCALE: 1 = 80
FILE: 9815-151

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	213	557



* Refer to Details on Sheets F62 and F63 for Number and Types of Barrels and Section 647 of the Specifications for Basis of Payment.

Estimated Quantities:

Pay Items:

Furnish and Install New
Portable Concrete Barriers – 30 Each

Type A Inertial Barrier System – 1 Each

Type B Inertial Barrier System – 1 Each *
*

Incidental Items:

Traffic Control Signs/Devices
Without Asterisk (*)
Temporary Striping – 11,000 ± Lineal Feet

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN
TEMPORARY STRIPING PLAN (EB)

INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)
Scale: 1"=80' Date: June 1, 1999

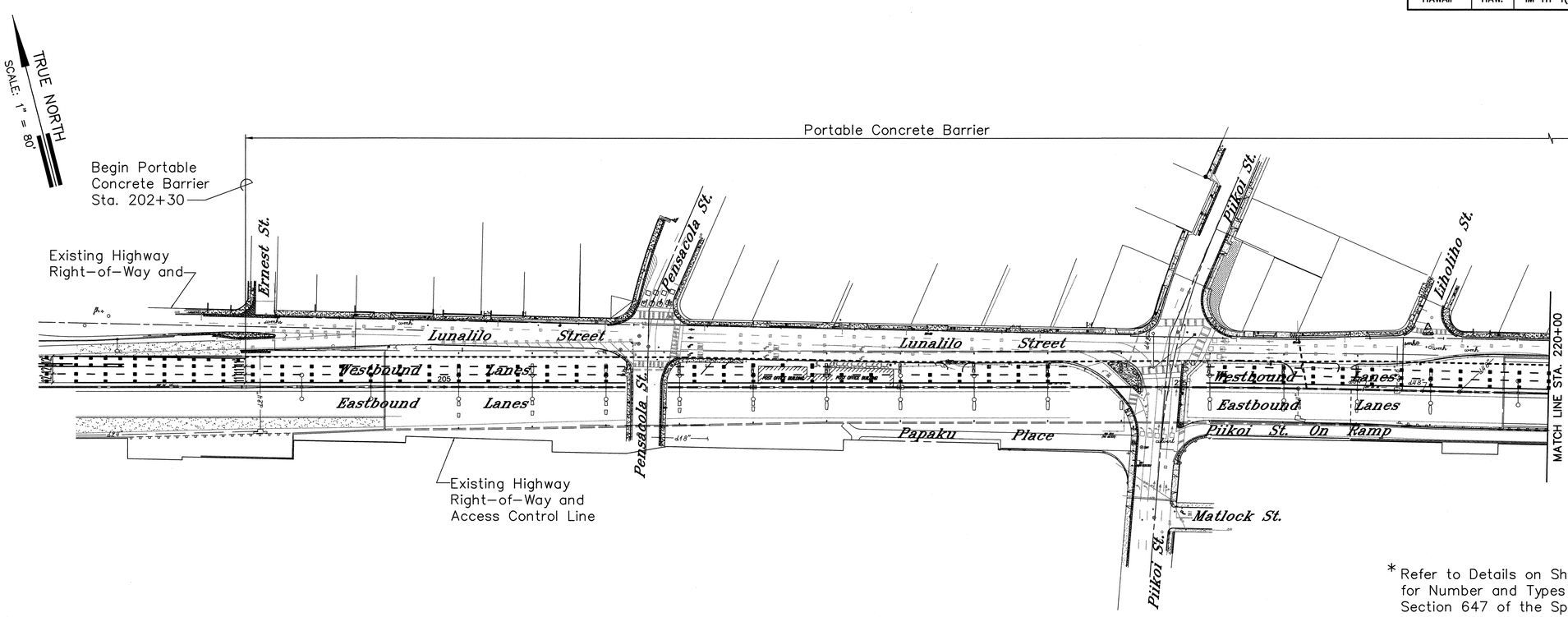
SHEET NO. **F58** OF **114** SHEETS

PM: BST
OPER: SHA,FAI,*BTY
REVISED: 07/19/99

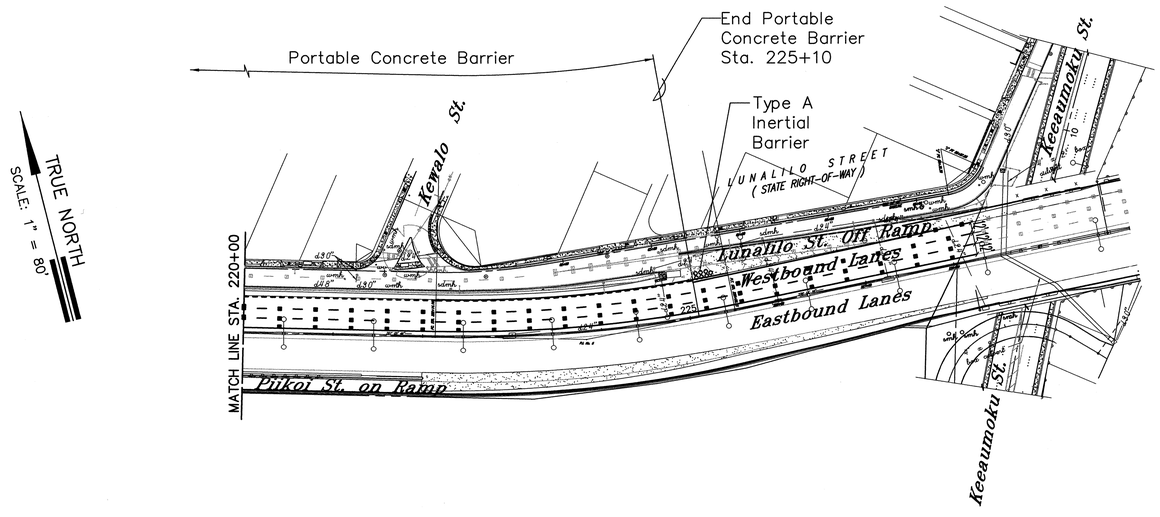
DATE: 10/23/98
SCALE: 1 = 80
FILE: 9815-152

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	214	557



* Refer to Details on Sheets F62 and F63 for Number and Types of Barrels and Section 647 of the Specifications for Basis of Payment.



Estimated Quantities:

Pay Items:

Type A Inertial Barrier System – 1 Each *

Incidental Items:

Traffic Control Signs/Devices Without Asterisk (*)

Reset Portable Concrete Barriers – 114 Each

Temporary Striping – 11,500± Lineal Feet

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN
TEMPORARY STRIPING PLAN (WB)

INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)
Scale: 1"=80' Date: June 1, 1999

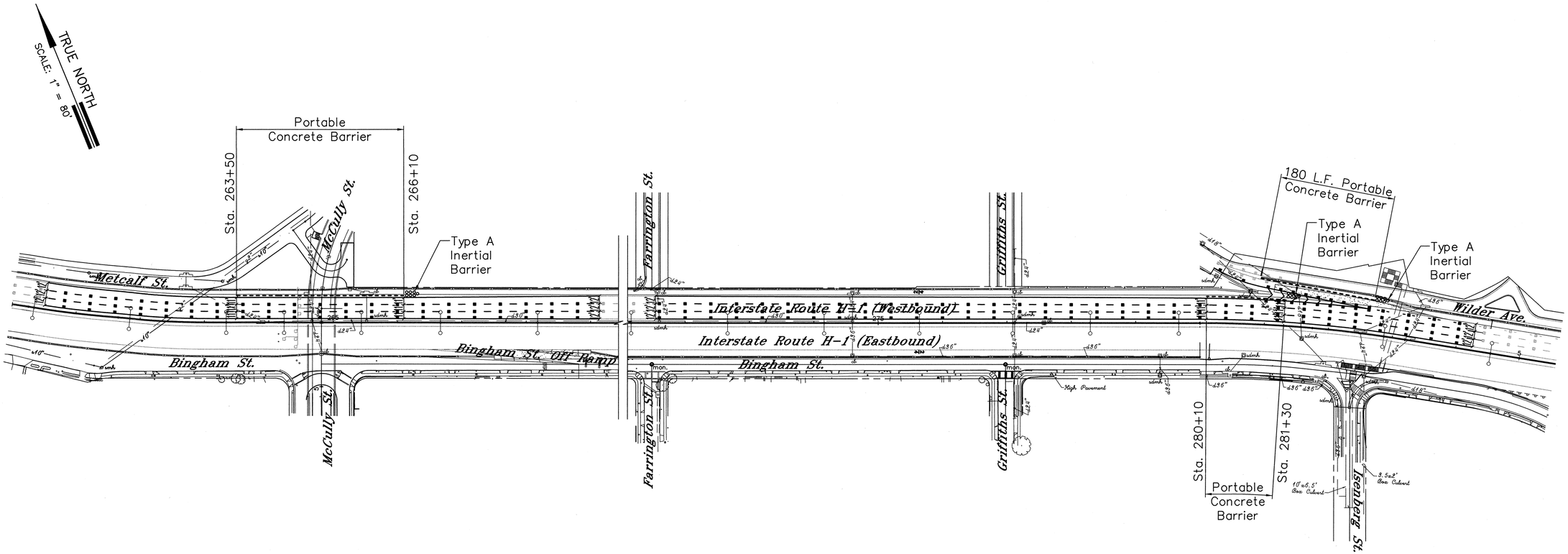
SHEET NO. F59 OF 114 SHEETS

DATE: 10/23/98
SCALE: 1 = 80
FILE: 9815-153

PM: BST
OPER: *SHA,FAI
REVISED: 07/15/99

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	215	557



* Refer to Details on Sheets F62 and F63 for Number and Types of Barrels and Section 647 of the Specifications for Basis of Payment.

Estimated Quantities:

Pay Items:

Type A Inertial Barrier Systems – 3 Each

Incidental Items:

Traffic Control Signs/Devices Without Asterisk (*)

Reset Portable Concrete Barriers – 28 Each

Temporary Striping – 8,600± Lineal Feet

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN
TEMPORARY STRIPING PLAN (WB)

INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

Scale: 1"=80' Date: June 1, 1999

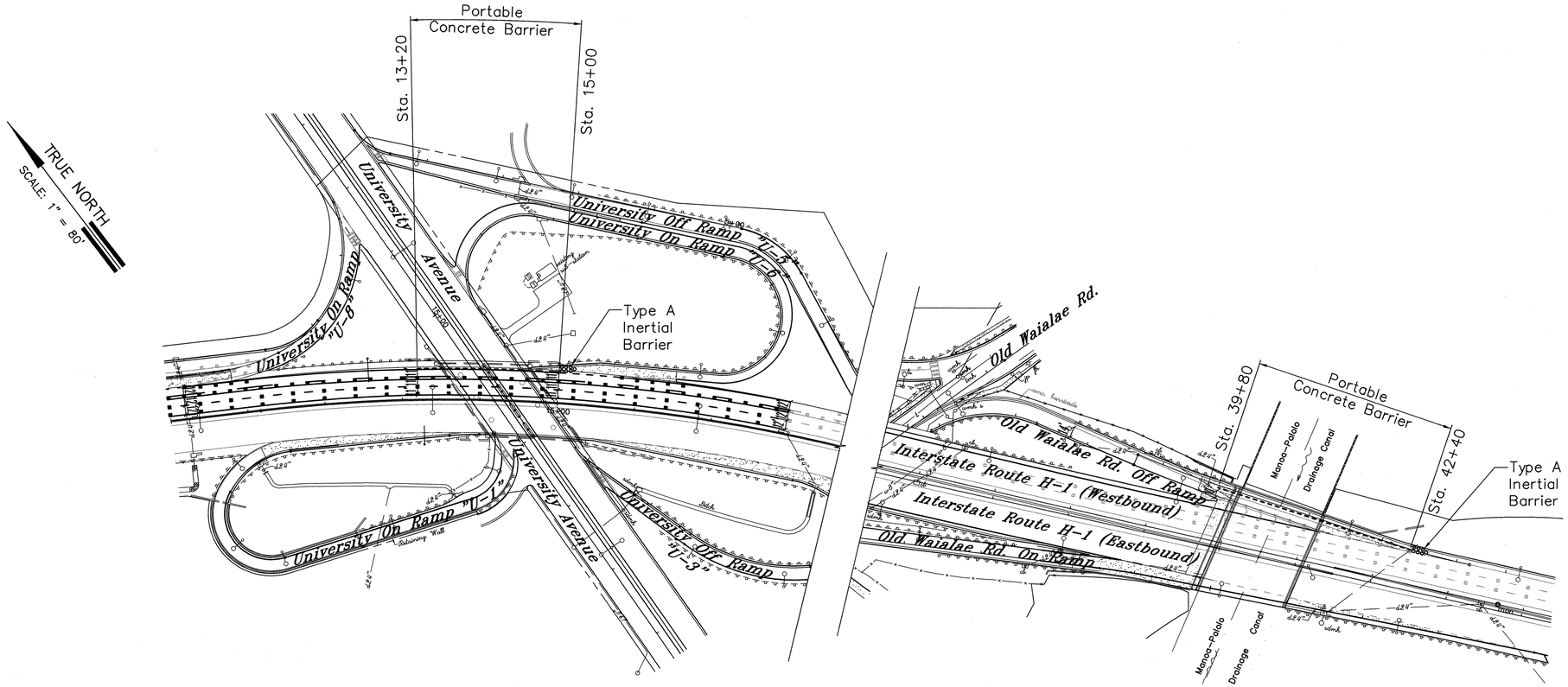
SHEET NO. **F60** OF **114** SHEETS

DATE: 10/27/98
SCALE: 1 = 80
FILE: 9815-154

PM: BST
OPER: *SHA.FAI
REVISED: 07/15/99

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	216	557



* Refer to Details on Sheets F62 and F63 for Number and Types of Barrels and Section 647 of the Specifications for Basis of Payment.

Estimated Quantities:

Pay Items:

Type A Inertial Barrier System – 2 Each

Incidental Items:

Traffic Control Signs/Devices Without Asterisk (*)

Reset Portable Concrete Barriers – 22 Each

Temporary Striping – 1,100± Lineal Feet

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL PLAN
TEMPORARY STRIPING PLAN (WB)

INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

Scale: 1"=80' Date: June 1, 1999

SHEET NO. F61 OF 114 SHEETS

PM: BST
OPER: *SHA.FAI
REVISED: 07/15/99

DATE: 10/27/98
SCALE: 1 = 80
FILE: 9815-155

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	217	557

TEMPORARY STRIPING NOTES:

1. Temporary Striping Shall Progress in the Following Manner in Compliance With the State's Standard Traffic Control Plans:

   a. Left Lane Closed.

      Follow Multi-lane Divided Highway - One Lane Closed, Figure 4 - Traffic Control Plan.

   b. Center Lane Closed.

      Follow Multi-lane Highway - Center Lane Closed, Figure 5 - Traffic Control Plan.

   c. Right Lane Closed.

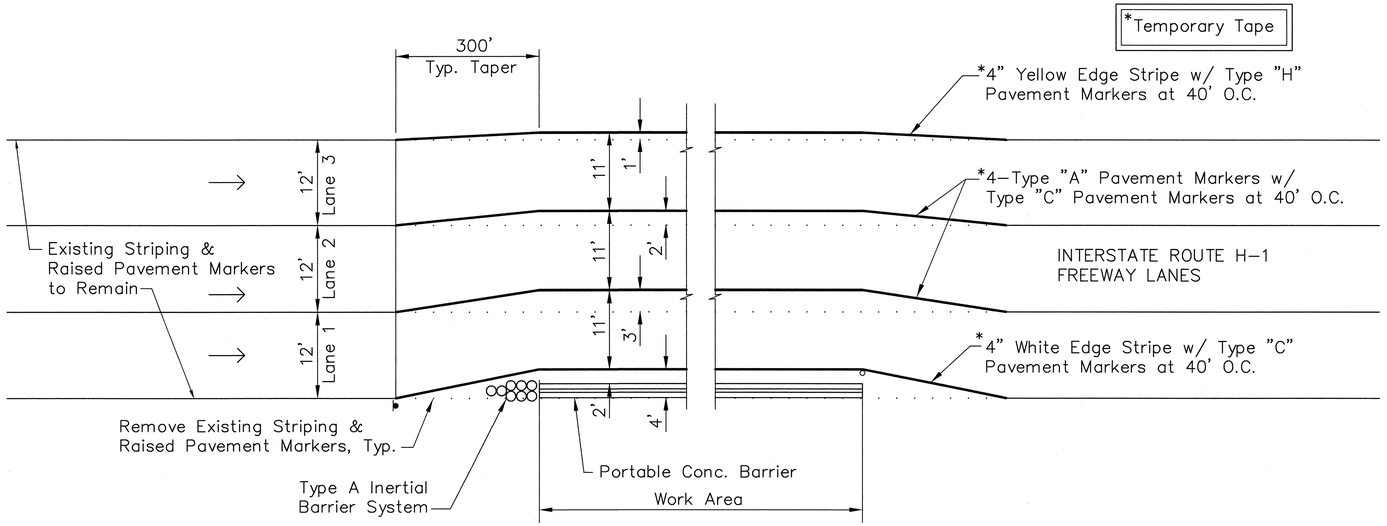
      Follow Multi-lane Higway - One Lane Closed, Figure 4 - Traffic Control Plan.

2. Lane Closures for Temporary Striping Work Will be Permitted on Week Nights From 10:30 PM to 4:30 AM, Sundays Through Thursdays, Excluding Holidays.

3. Multi-lane Closures Will Not be Permitted During Temporary Striping Operations.

4. A Minimum of Two Police Officers Shall be Present During the Entire Temporary Striping Operations.

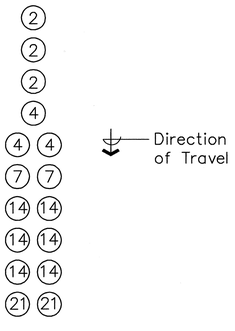
5. Unless Otherwise Indicated for Portable Concrete Barriers, All Work Related to Temporary Striping Shall be Incidental to Asphaltic Conrete Pavement, Mix No. IV .



Note: For 4-Lane and 5-Lane Freeway Configurations, Temporary Striping for Lanes 1, 2 And 3 are the Same, as Shown, Except the 4" Yellow Edge Stripe With Type "H" Markers is Changed to Type "A" & "C" Markers for Regular Lane Lines. Temporary Striping for Lanes 4 and 5 on the Median Side Will Not be Required.

TEMPORARY STRIPING PLAN - 3 LANE FREEWAY

Not to Scale



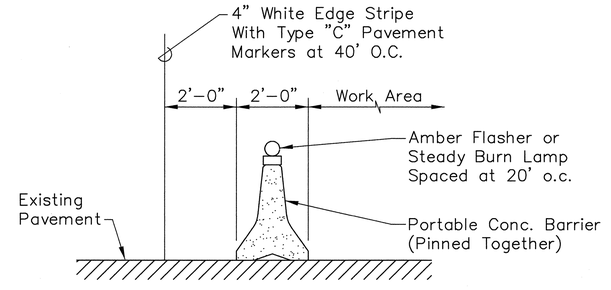
TYPE A (60 MPH)

Notes:

1. Contractor to Install System Per Manufacture's Recommendation.
2. Numbers Indicate Pounds of Sand in Hundreds.
3. Refer to Section 647 of the Specifications for Basis of Payment.

INERTIAL BARRIER SYSTEM LAYOUT

Not to Scale



FREEWAY PLACEMENT OF PORTABLE CONC. BARRIER FOR BRIDGE PARAPET/GUARDRAIL WORK

Not to Scale

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CONSTRUCTION PHASING
DETAILS & NOTES

INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

Scale: As Shown Date: June 1, 1999

SHEET NO. F62 OF 114 SHEETS

PM: BST
OPER: SHA*FAI
REVISED: 05/10/99

DATE: 9/02/98
SCALE: 1" = 1'
FILE: 9815-81

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	218	557

TEMPORARY STRIPING NOTES – 3 LANE FREEWAY:

1. Temporary Striping Shall Progress in the Following Manner in Compliance With the State's Standard Traffic Control Plans:

   a. Left Lane Closed

      Follow Multi-lane Divided Highway – One Lane Closed, Figure 4 – Traffic Control Plan.

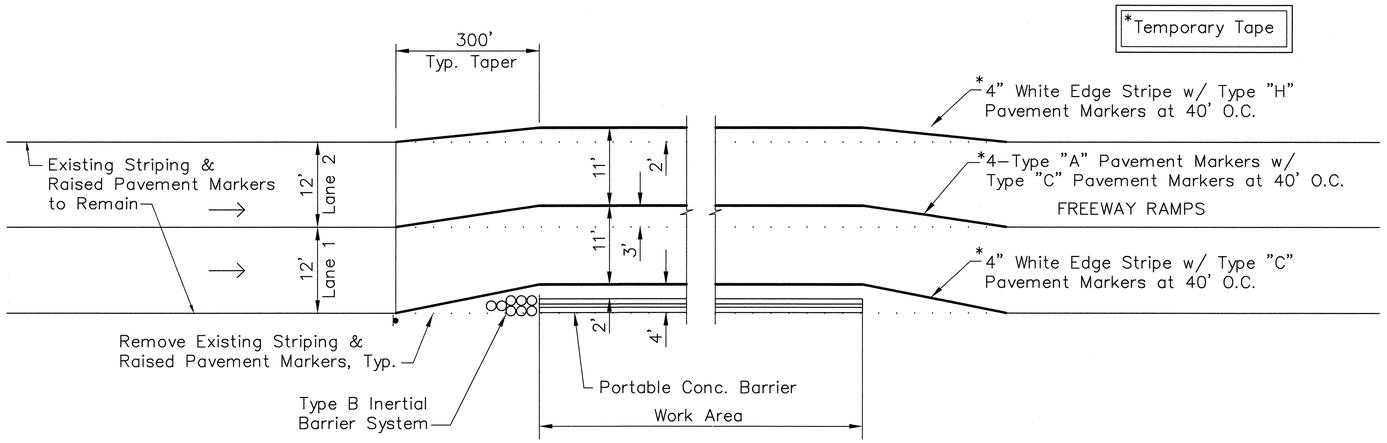
   b. Right Lane Closed

      Follow Multi-lane Highway – One Lane Closed, Figure 4 – Traffic Control Plan.

2. Ramp Lane Closures For Temporary Striping Work Will Be Permitted From 9:00 AM to 3:00 PM, Mondays to Fridays, Excluding Holidays.

3. A Minimum of Two Police Officers Shall be Present During the Entire Temporary Striping Operations.

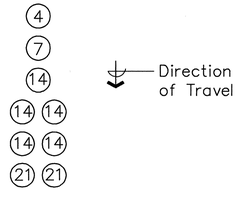
4. Unless Otherwise Indicated For Portable Concrete Barriers, All Work Related to Temporary Striping Shall be Incidental to Asphaltic Concrete Pavement, Mix No. IV .



Note: Lanes/Lane Widths Reversed for Work on the Opposite Side.

TEMPORARY STRIPING PLAN – FREEWAY RAMPS

Not to Scale



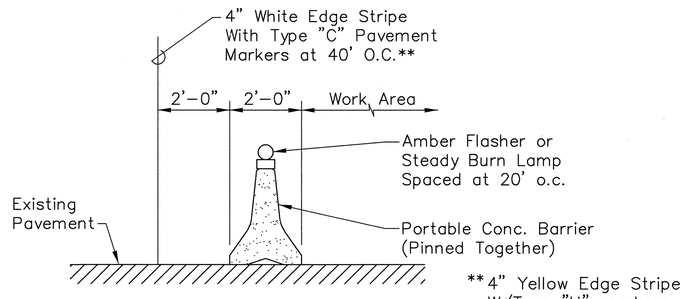
TYPE B (40 MPH)

Notes:

1. Contractor to Install System Per Manufacture's Recommendation.
2. Numbers Indicate Pounds of Sand in Hundreds.
3. Refer to Section 647 of the Specifications for Basis of Payment.

INERTIAL BARRIER SYSTEM LAYOUT

Not to Scale



RAMP PLACEMENT OF PORTABLE CONC. BARRIER FOR BRIDGE PARAPET/GUARDRAIL WORK

Not to Scale

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CONSTRUCTION PHASING DETAILS & NOTES

INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

Scale: As Shown Date: June 1, 1999

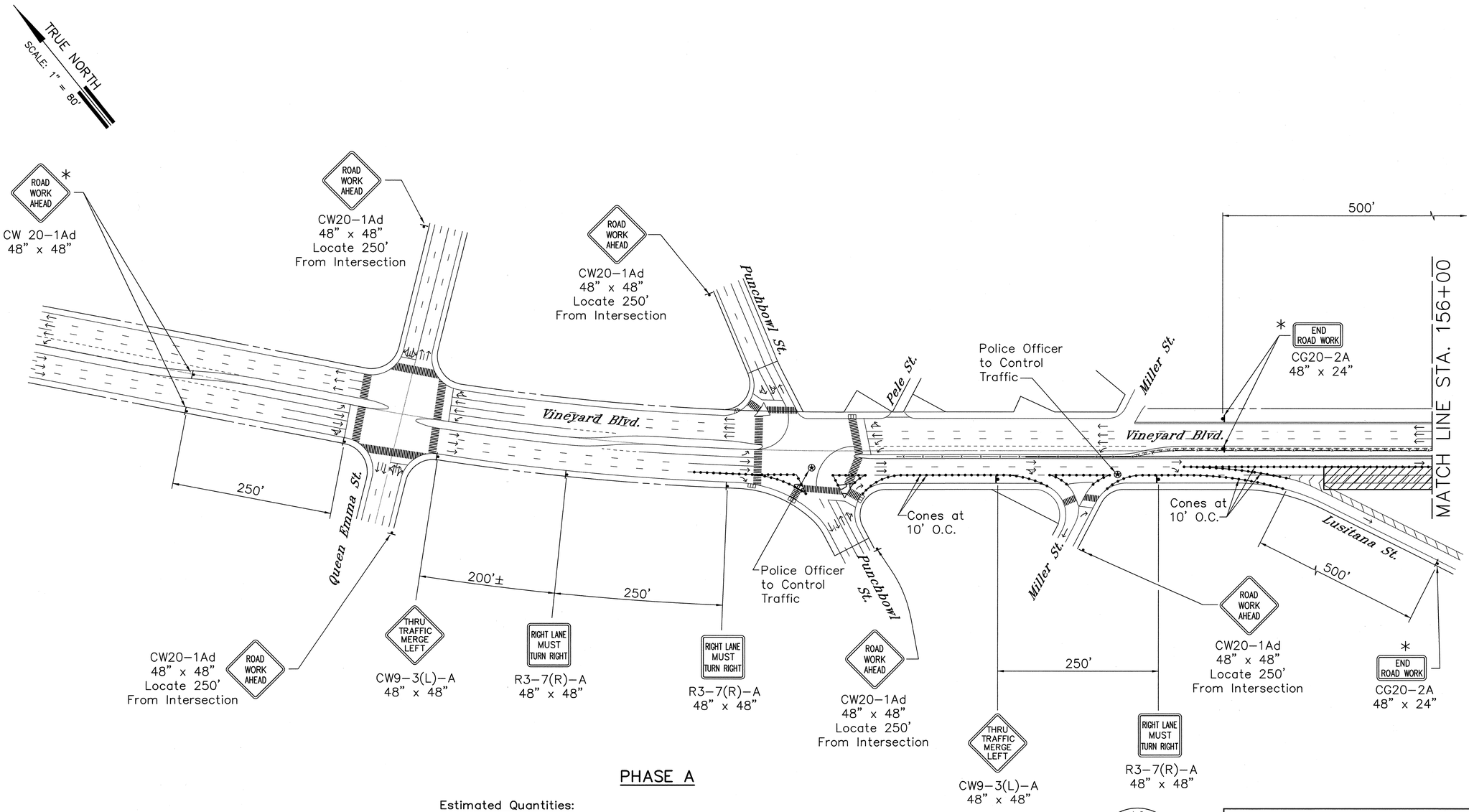
SHEET NO. F63 OF 114 SHEETS

PM: BST
OPER: SHA,*FAI
REVISED: 05/10/99

DATE: 9/16/98
SCALE: 1" = 1'
FILE: 9815-84

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	219	557



PHASE A

Estimated Quantities:

Pay Items:

Construction Sign with 2 Posts Marked with Asterisk(*) – 5 each

Incidental Items:

Traffic Control Signs/Devices Without Asterisk (*)

Police Officers

* Construction Signs with 2 Posts Marked with Asterisk(*) to be Installed at the Start of Phase A and to be Removed at the End of Phase B. To be Paid Under Item 621.7210, Construction Warning Sign with 2 Posts – Frontage Roads. All other Traffic Control Signs/Devices Without Asterisk(*) are Incidental.

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TCP FOR VINEYARD ON AND OFF RAMPS

INTERSTATE ROUTE H-1 RESURFACING

Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

Scale: 1"=80' Date: June 1, 1999

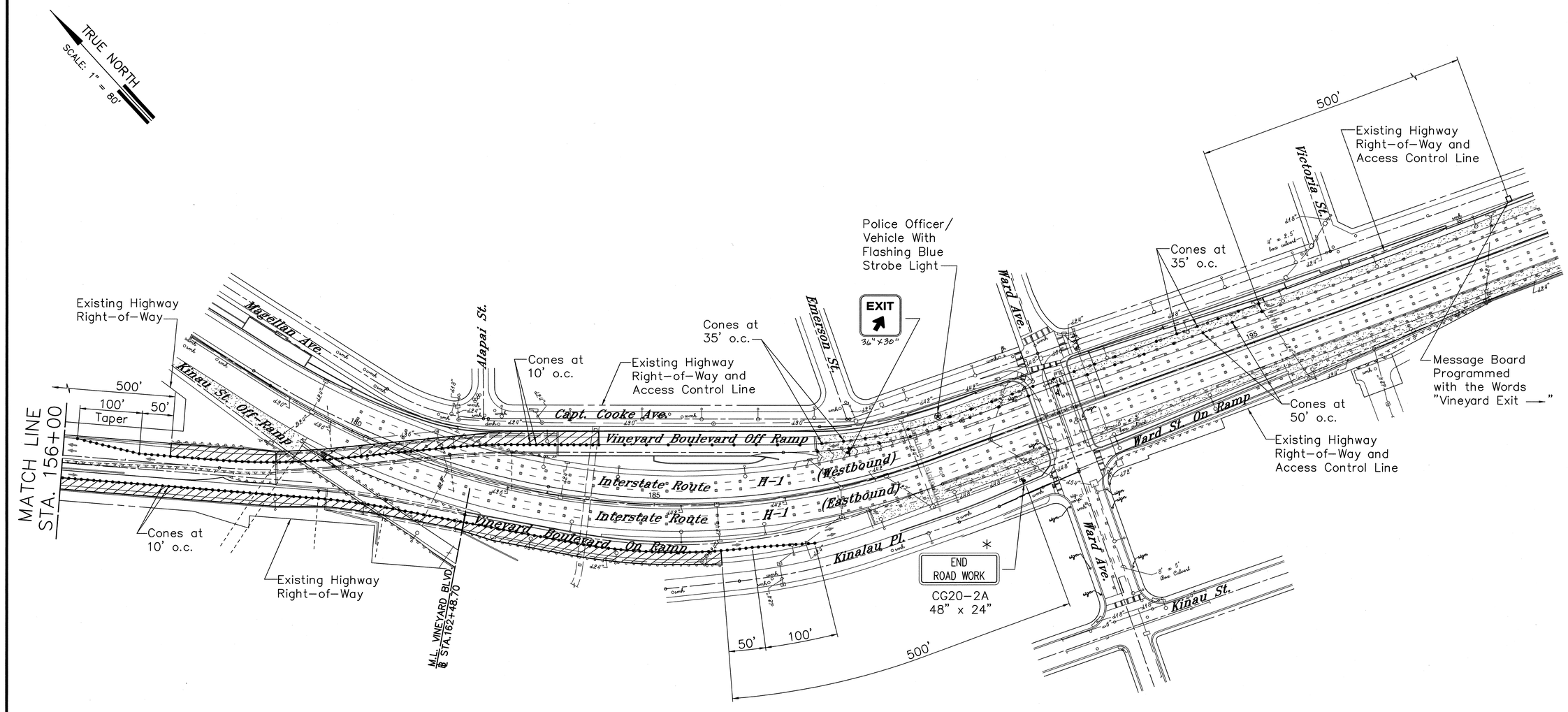
SHEET NO. **F64** OF **114** SHEETS

PM: BST
OPER: *SHA,FAI
REVISED: 07/15/99

DATE: 10/27/98
SCALE: 1 = 80
FILE: 9815-156

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	220	557



DATE: 10/27/98
SCALE: 1 = 80
FILE: 9815-157

PM: BST
OPER: *SHA,FAI
REVISED: 07/15/99

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

PHASE A

Estimated Quantities:

Pay Items:

Construction Sign with 2 Posts Marked with Asterisk(*) – 1 each

Incidental Items:

Traffic Control Signs/Devices Without Asterisk (*)

Police Officer

* Construction Signs with 2 Posts Marked with Asterisk(*) to be Installed at the Start of Phase A and to be Removed at the End of Phase B. To be Paid Under Item 621.7210, Construction Warning Sign with 2 Posts – Frontage Roads. All other Traffic Control Signs/Devices Without Asterisk(*) are Incidental.

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TCP FOR VINEYARD ON AND OFF RAMPS

INTERSTATE ROUTE H-1 RESURFACING

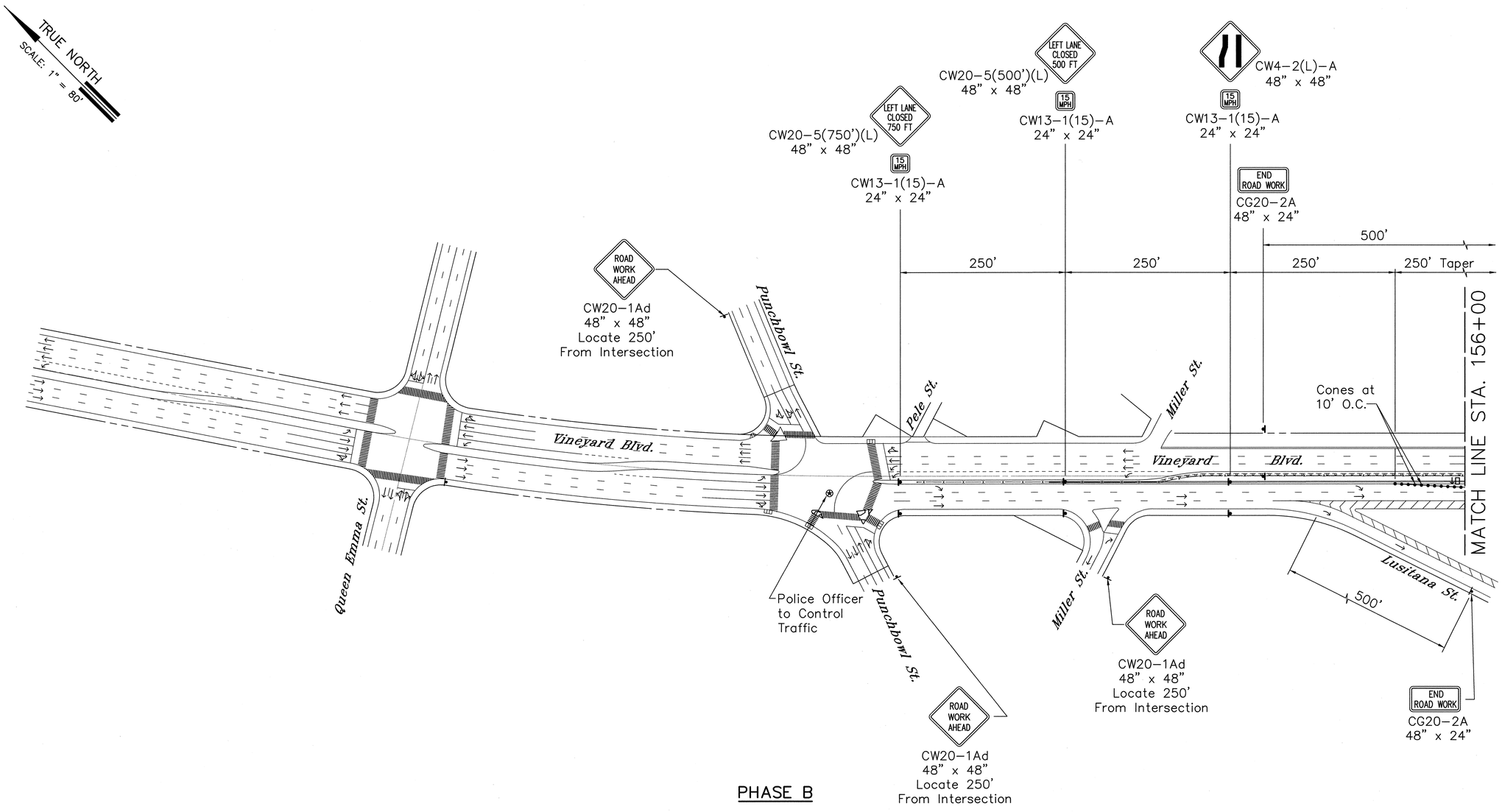
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

Scale: 1"=80' Date: June 1, 1999

SHEET NO. F65 OF 114 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	221	557

TRUE NORTH
SCALE: 1" = 80'



PHASE B

Estimated Quantities:

Pay Items:

None

Incidental Items:

Traffic Control Signs/Devices Without Asterisk (*)

Police Officer

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TCP FOR VINEYARD ON AND OFF RAMPS

INTERSTATE ROUTE H-1 RESURFACING

Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

Scale: 1"=80' Date: June 1, 1999

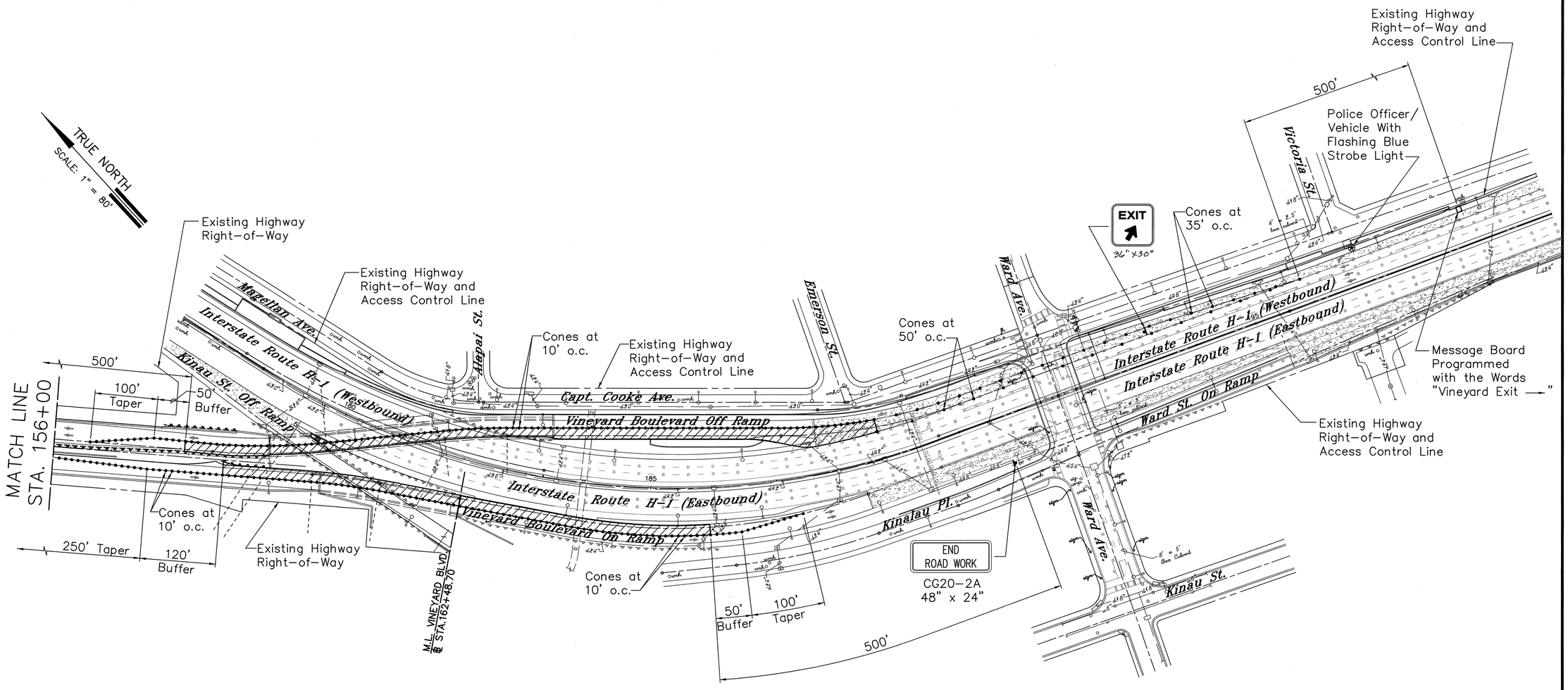
SHEET NO. **F66** OF **114** SHEETS

PM: BST
OPER: *SHA,CDK,FAI
REVISED: 07/15/99

DATE: 10/27/98
SCALE: 1 = 80
FILE: 9815-158

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	222	557



PHASE B

Estimated Quantities:

Pay Items:

None

Incidental Items:

Traffic Control Signs/Devices Without Asterisk (*)

Police Officer

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TCP FOR VINEYARD ON AND OFF RAMPS

INTERSTATE ROUTE H-1 RESURFACING

Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

Scale: 1"=80' Date: June 1, 1999

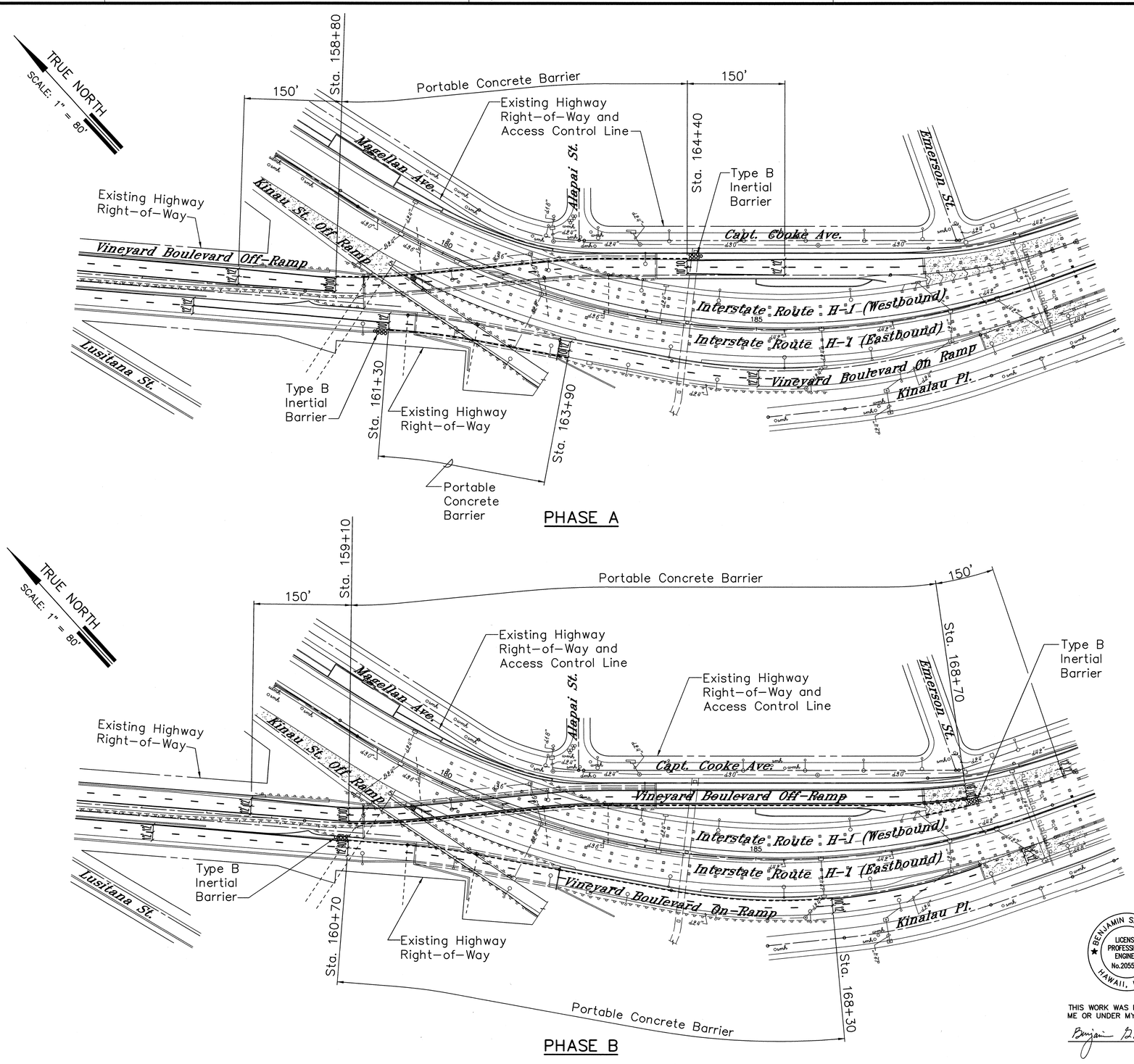
SHEET NO. F67 OF 114 SHEETS

PM: BST
OPER: *SHA,FAI
REVISED: 07/15/99

DATE: 10/27/98
SCALE: 1 = 80
FILE: 9815-159

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	223	557



DATE: 10/27/98
SCALE: 1 = 80
FILE: 9815-160

PM: BST
OPER: SHA,FAI,*BTY
REVISED: 07/19/99

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

Estimated Quantities:

Pay Items:

Furnishing and Installing New Portable Concrete Barriers – 127 Each
Type B Inertial Barrier System – 4 Each*

Incidental Items:

Traffic Control Signs/Devices Without Asterisk (*)
Temporary Striping – 7,500± Lineal Feet

* Refer to Details on Sheets F62 and F63 for Number and Types of Barrels and Section 647 of the Specifications for Basis of Payment.

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TCP FOR VINEYARD ON AND OFF RAMPS

TEMPORARY STRIPING PLAN

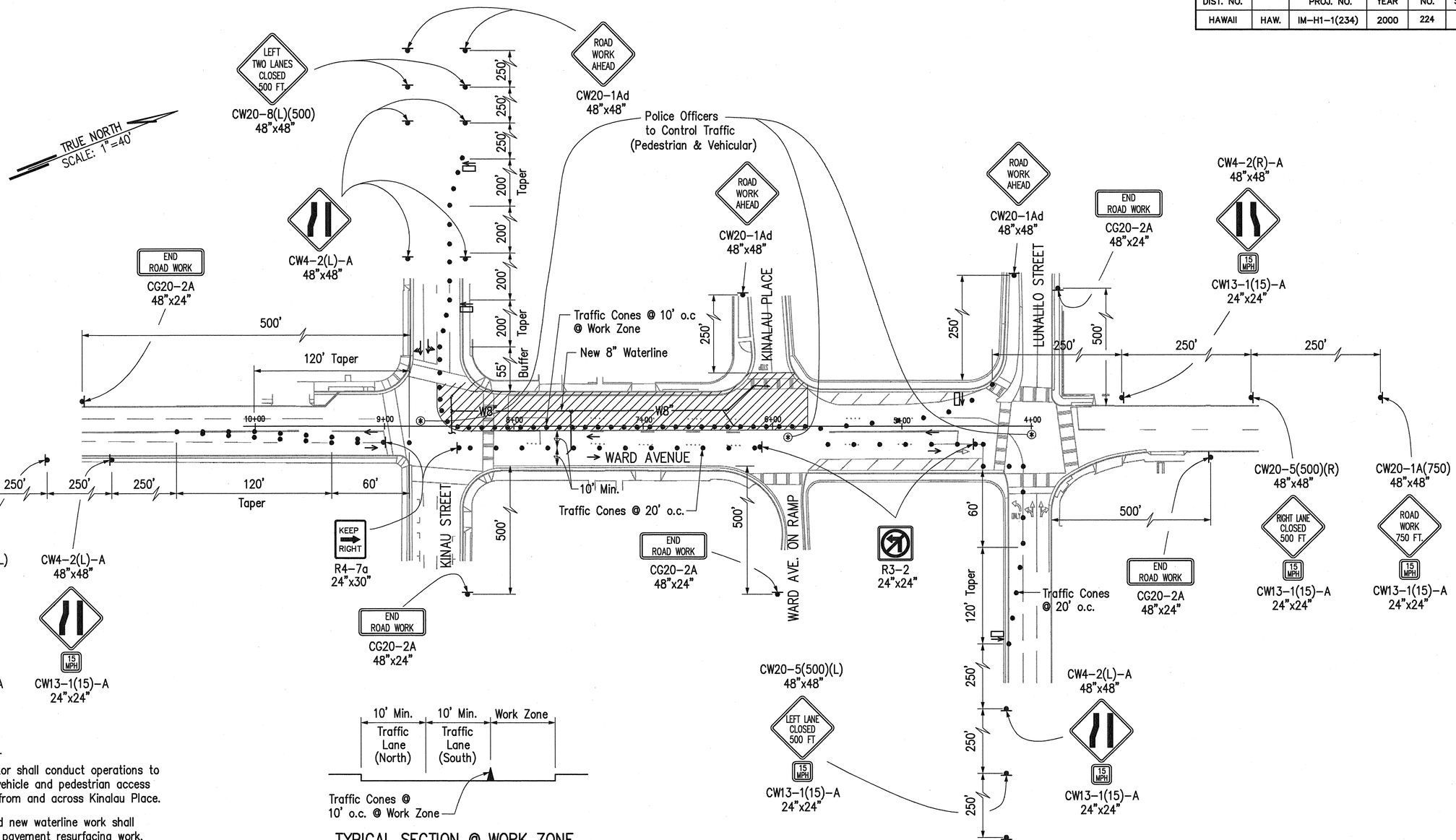
INTERSTATE ROUTE H-1 RESURFACING

Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

Scale: 1"=80' Date: June 1, 1999

SHEET NO. **F68** OF **114** SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	224	557



NOTES:

1. Contractor shall conduct operations to permit vehicle and pedestrian access to and from and across Kinalau Place.
2. Proposed new waterline work shall precede pavement resurfacing work. It will require separate phasing from the resurfacing work, but can follow traffic control plan, as shown.

Estimated Quantities:
Pay Items:
None
Incidental Items:
Police Officers
Traffic Control Signs/Devices Without Asterisk (*)

TYPICAL SECTION @ WORK ZONE
PHASE A
Not to Scale

PHASE A CONSTRUCTION

ORIGINAL PLAN	NOTE BOOK	No.	DATE

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LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

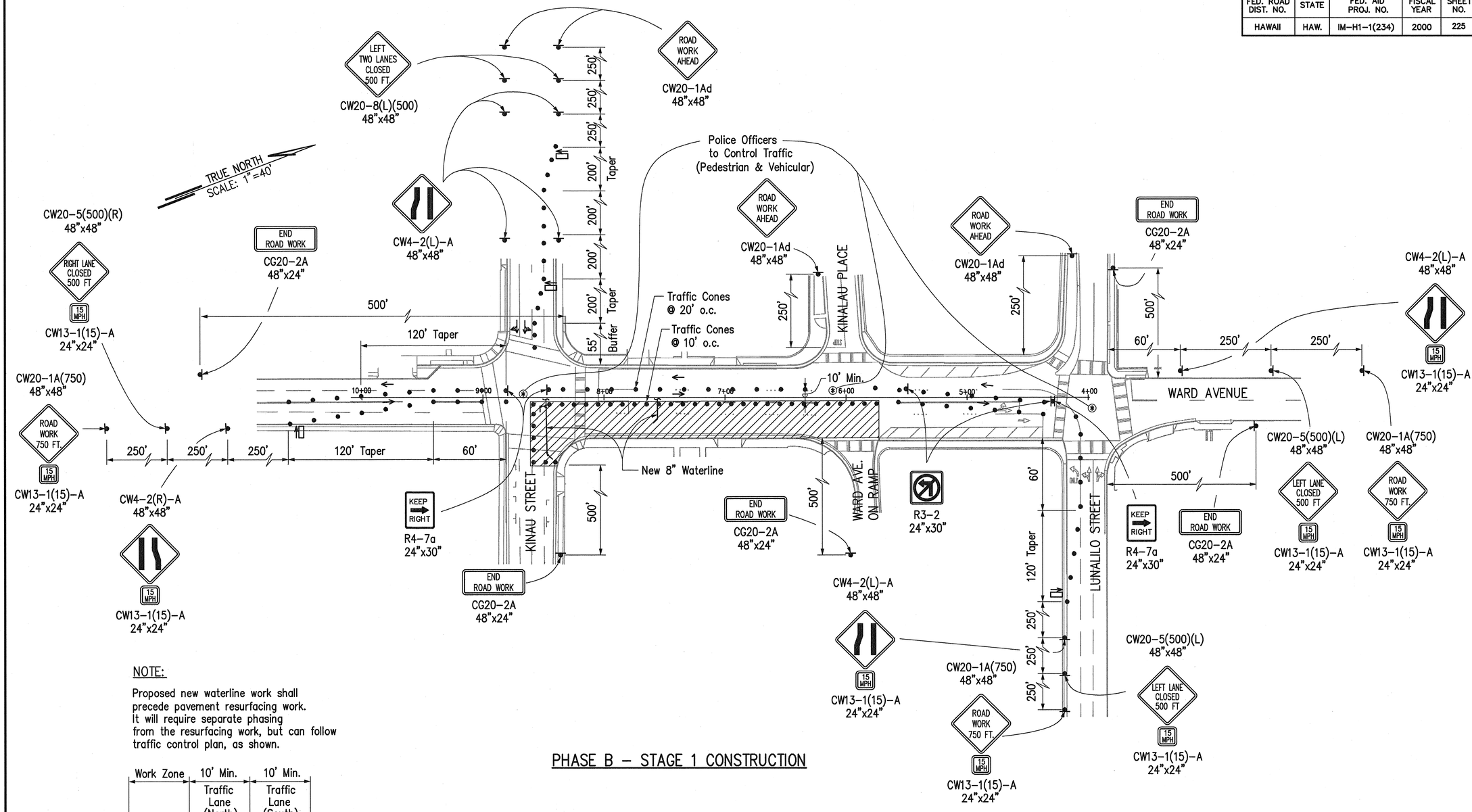
TCP FOR WARD AVENUE

INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I. Project No. IM-H1-1(234)

Scale: 1" = 40' Date: June 1, 1999

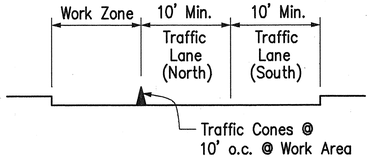
SHEET No. F69 OF 114 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	225	557



NOTE:

Proposed new waterline work shall precede pavement resurfacing work. It will require separate phasing from the resurfacing work, but can follow traffic control plan, as shown.



TYPICAL SECTION @ WORK ZONE
PHASE B – STAGE 1
Not to Scale

PHASE B – STAGE 1 CONSTRUCTION

Estimated Quantities:
Pay Items:
None
Incidental Items:
Police Officers
Traffic Control Signs/Devices Without Asterisk (*)

SURVEY PLOTTED BY
DRAWN BY
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QUANTITIES BY
CHECKED BY
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ORIGINAL PLAN
NOTE BOOK
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LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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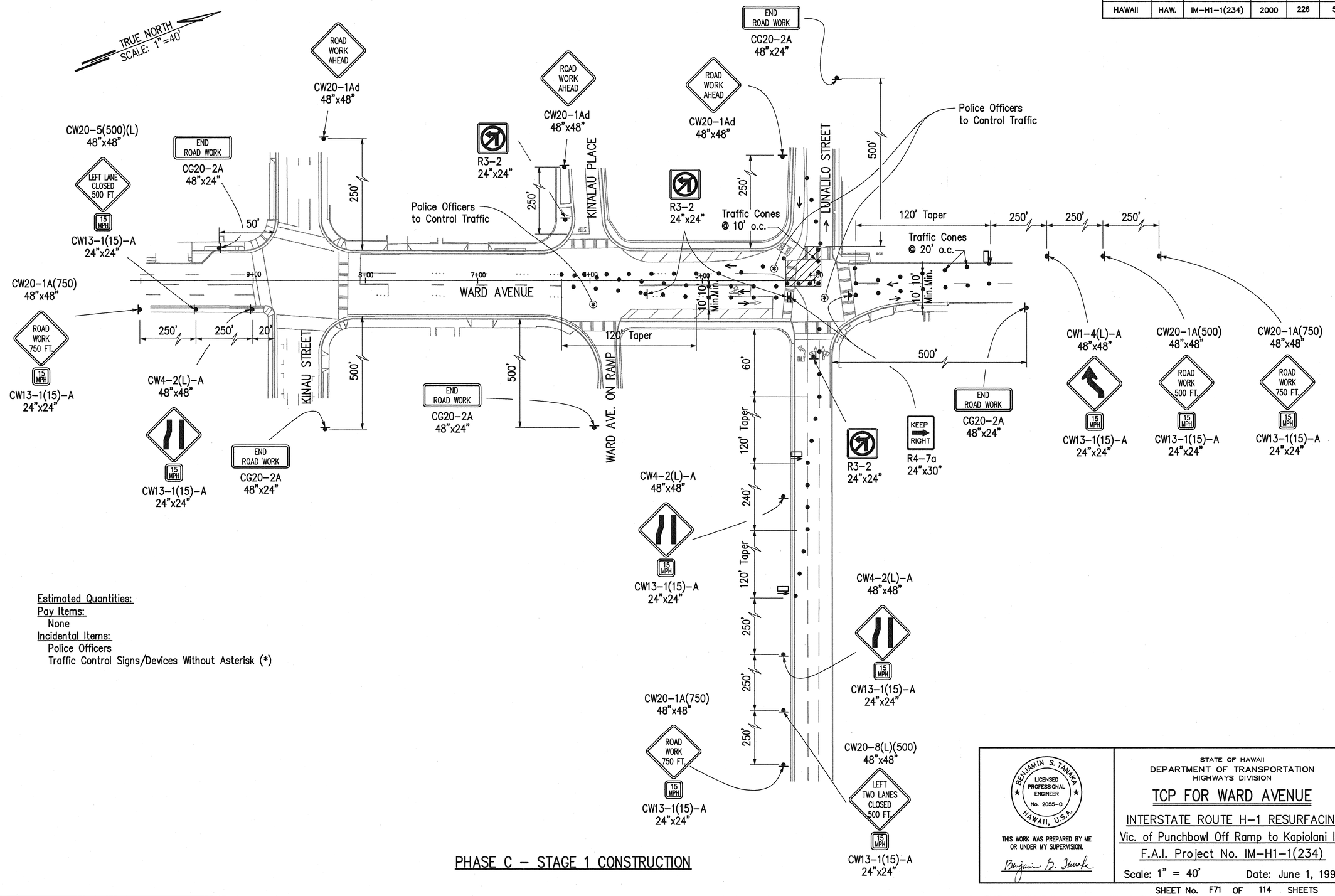
TCP FOR WARD AVENUE

INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I. Project No. IM-H1-1(234)

Scale: 1" = 40' Date: June 1, 1999

SHEET No. F70 OF 114 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	226	557



Estimated Quantities:
Pay Items:
None
Incidental Items:
Police Officers
Traffic Control Signs/Devices Without Asterisk (*)

PHASE C - STAGE 1 CONSTRUCTION

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

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LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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HIGHWAYS DIVISION

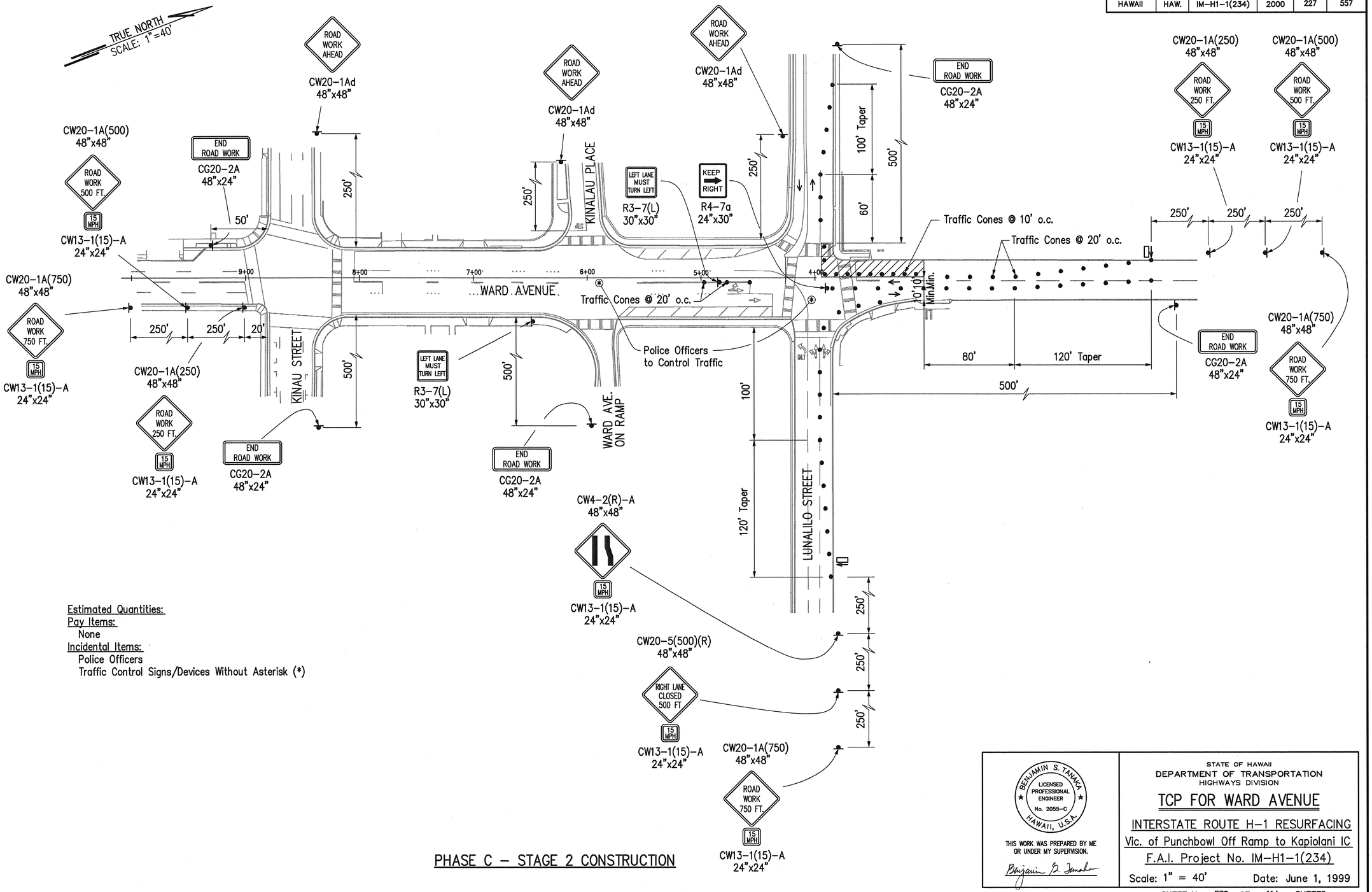
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INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I. Project No. IM-H1-1(234)

Scale: 1" = 40' Date: June 1, 1999

SHEET No. F71 OF 114 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	227	557



Estimated Quantities:
Pay Items:
None
Incidental Items:
Police Officers
Traffic Control Signs/Devices Without Asterisk (*)

PHASE C – STAGE 2 CONSTRUCTION

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

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LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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HIGHWAYS DIVISION

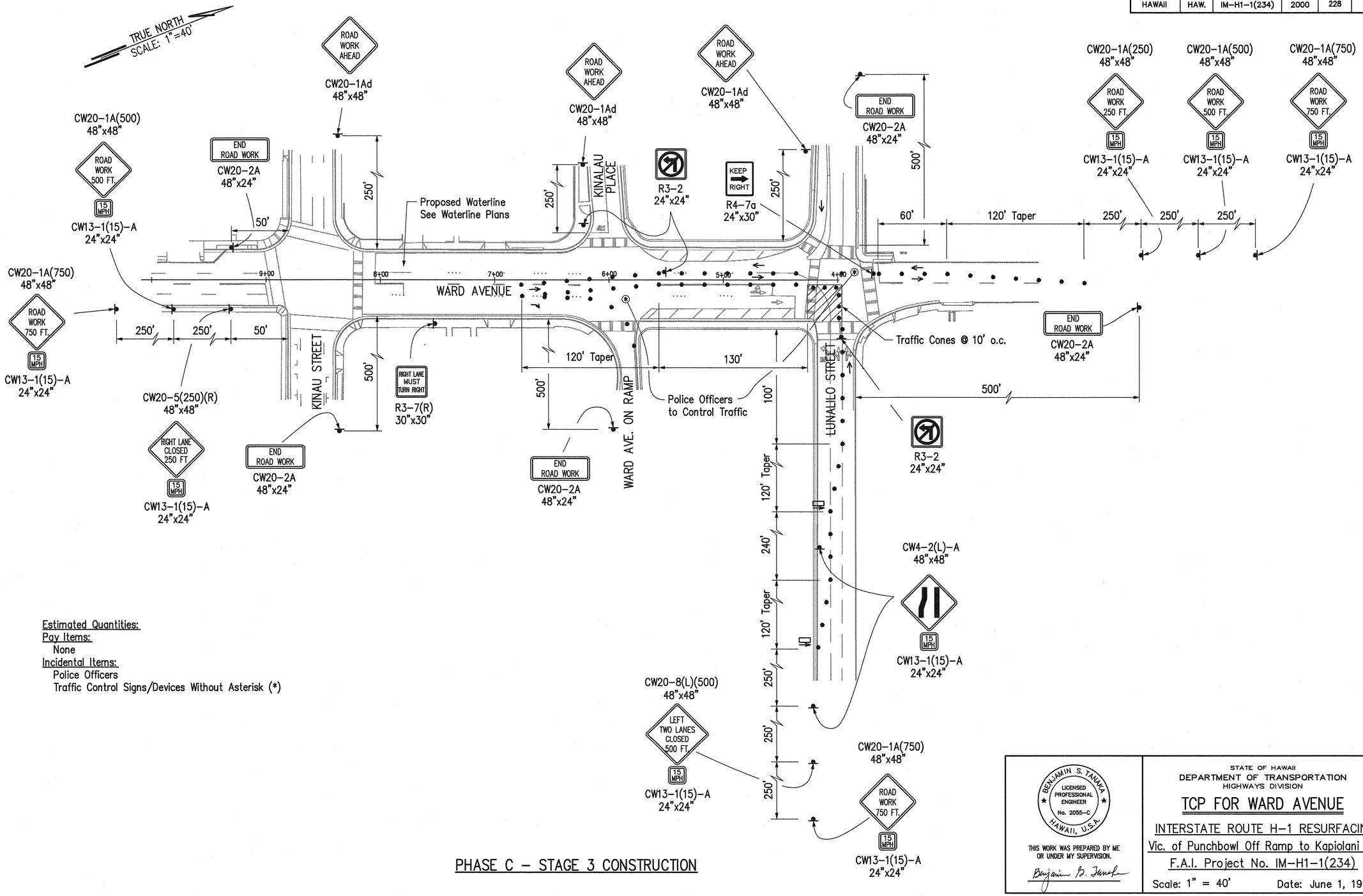
TCP FOR WARD AVENUE

INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I. Project No. IM-H1-1(234)

Scale: 1" = 40' Date: June 1, 1999

SHEET No. F72 OF 114 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	228	557



Estimated Quantities:
Pay Items:
None
Incidental Items:
Police Officers
Traffic Control Signs/Devices Without Asterisk (*)

PHASE C – STAGE 3 CONSTRUCTION

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

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LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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Benjamin S. Tanaka

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DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

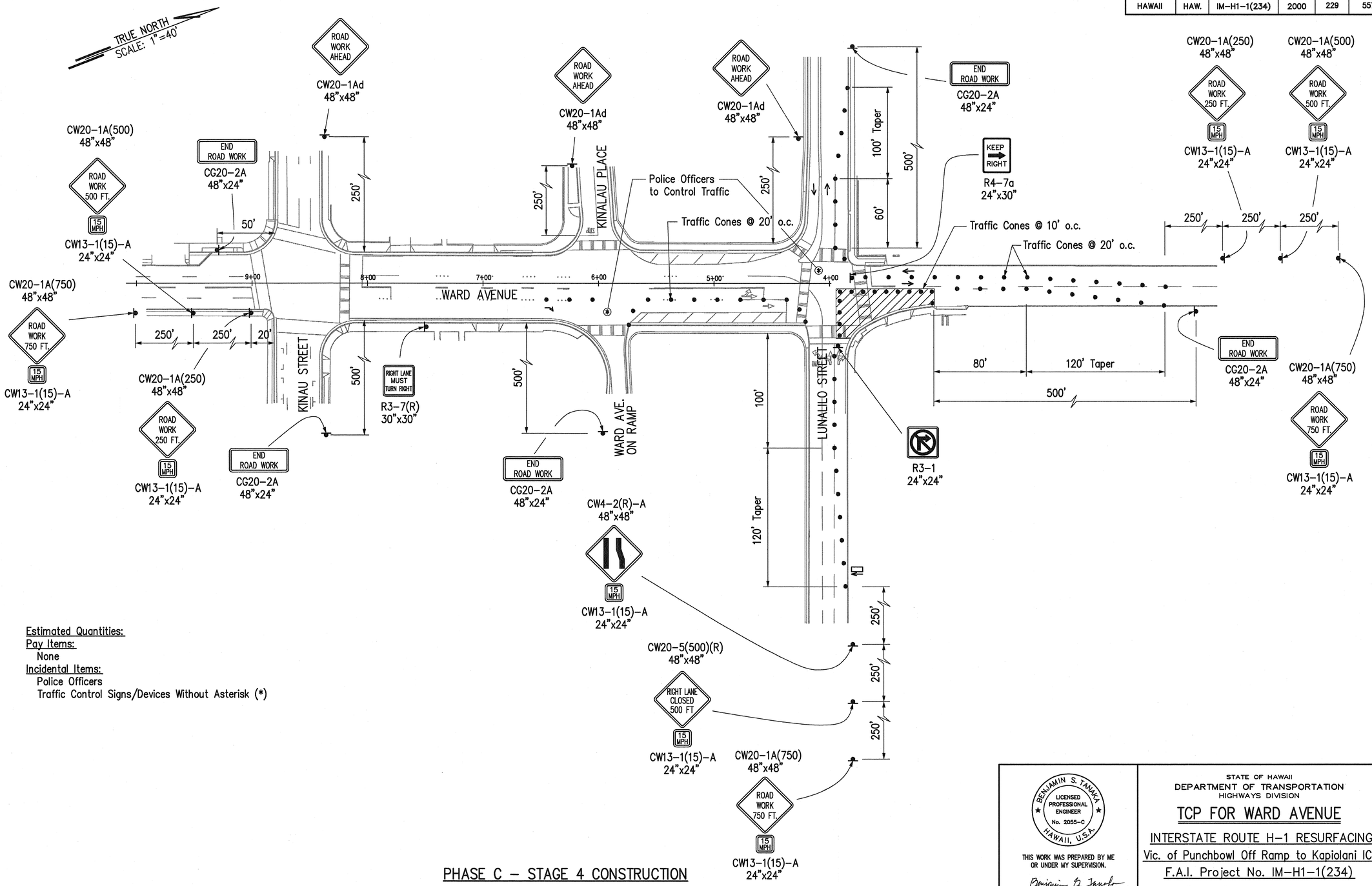
TCP FOR WARD AVENUE

INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I. Project No. IM-H1-1(234)

Scale: 1" = 40' Date: June 1, 1999

SHEET No. F73 OF 114 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	229	557



Estimated Quantities:
Pay Items:
None
Incidental Items:
Police Officers
Traffic Control Signs/Devices Without Asterisk (*)

PHASE C – STAGE 4 CONSTRUCTION

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

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LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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HIGHWAYS DIVISION

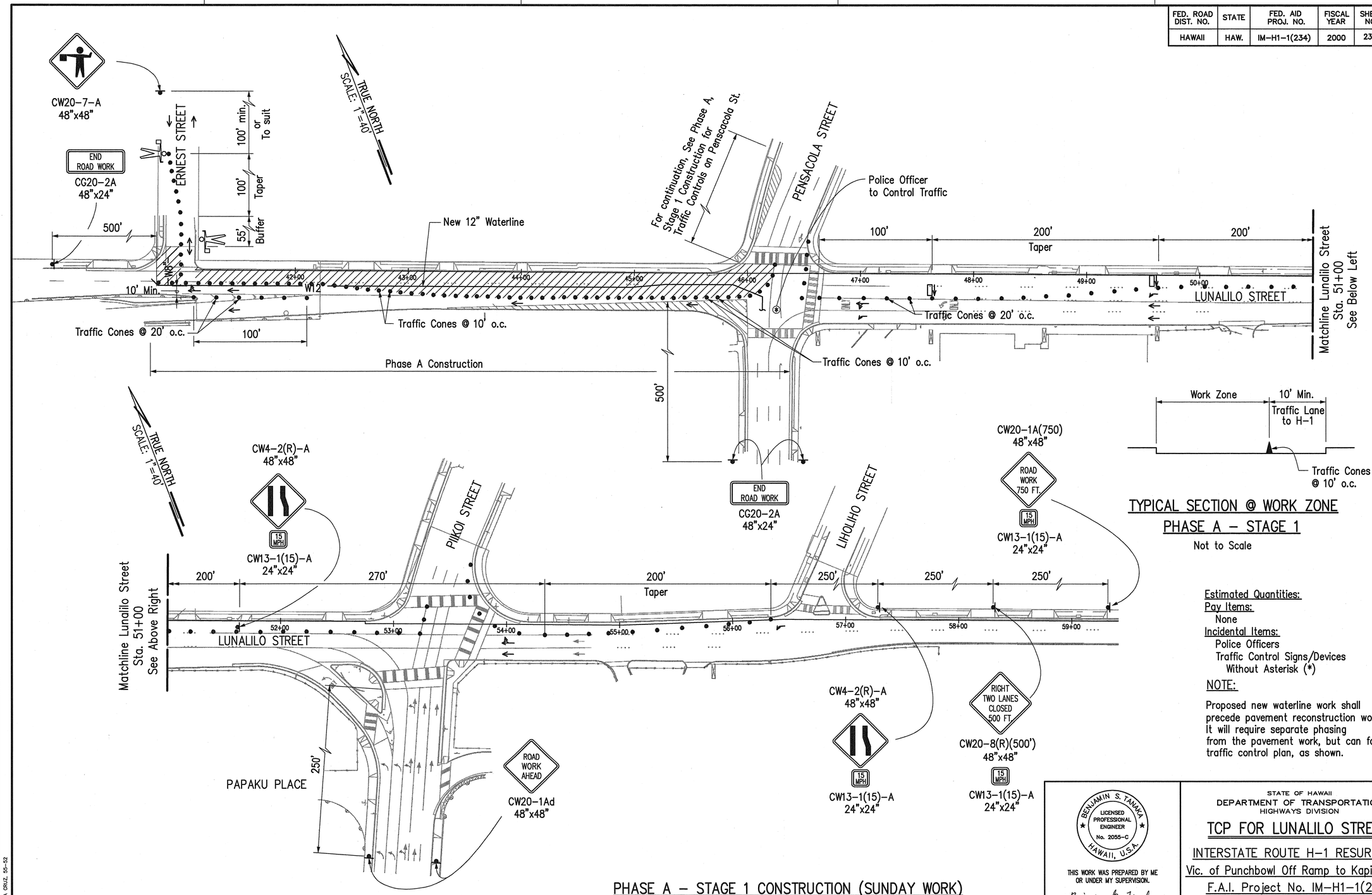
TCP FOR WARD AVENUE

INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I. Project No. IM-H1-1(234)

Scale: 1" = 40' Date: June 1, 1999

SHEET No. F74 OF 114 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	230	557



TYPICAL SECTION @ WORK ZONE
PHASE A – STAGE 1

Not to Scale

Estimated Quantities:
Pay Items:
None
Incidental Items:
Police Officers
Traffic Control Signs/Devices Without Asterisk (*)

NOTE:

Proposed new waterline work shall precede pavement reconstruction work. It will require separate phasing from the pavement work, but can follow traffic control plan, as shown.

PHASE A – STAGE 1 CONSTRUCTION (SUNDAY WORK)

BENJAMIN S. TANAKA LICENSED PROFESSIONAL ENGINEER No. 2055-C HAWAII, U.S.A.

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Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TCP FOR LUNALILO STREET

INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I. Project No. IM-H1-1(234)

Scale: 1" = 40' Date: June 1, 1999

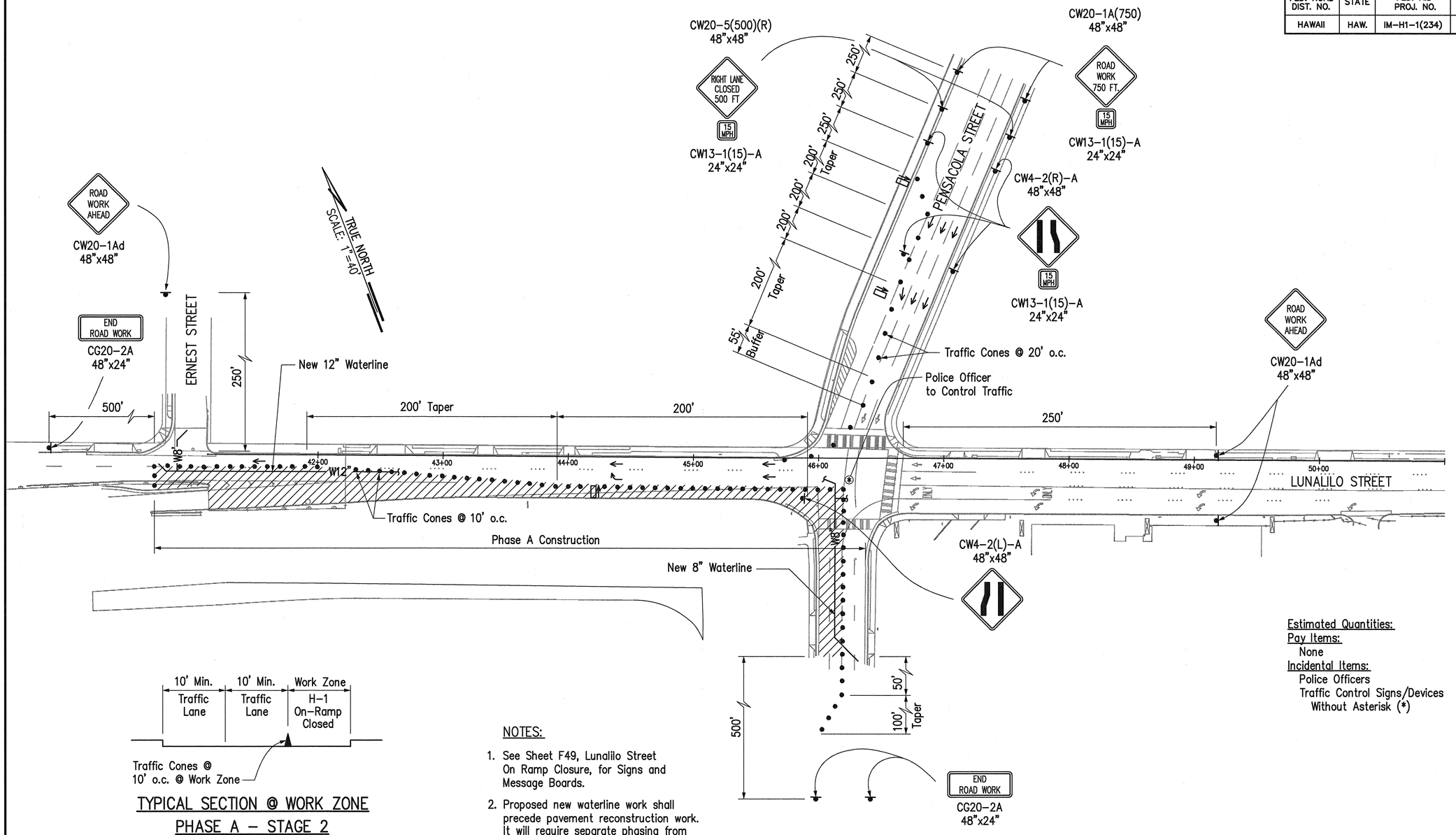
SHEET No. F75 OF 114 SHEETS

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

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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	231	557



TYPICAL SECTION @ WORK ZONE
PHASE A – STAGE 2
Not to Scale

NOTES:

1. See Sheet F49, Lunalilo Street On Ramp Closure, for Signs and Message Boards.
2. Proposed new waterline work shall precede pavement reconstruction work. It will require separate phasing from the pavement work, but can follow traffic control plan, as shown.

Estimated Quantities:
Pay Items:
None
Incidental Items:
Police Officers
Traffic Control Signs/Devices Without Asterisk (*)

PHASE A – STAGE 2 CONSTRUCTION (SUNDAY WORK)

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

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LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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Benjamin S. Tanaka

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DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

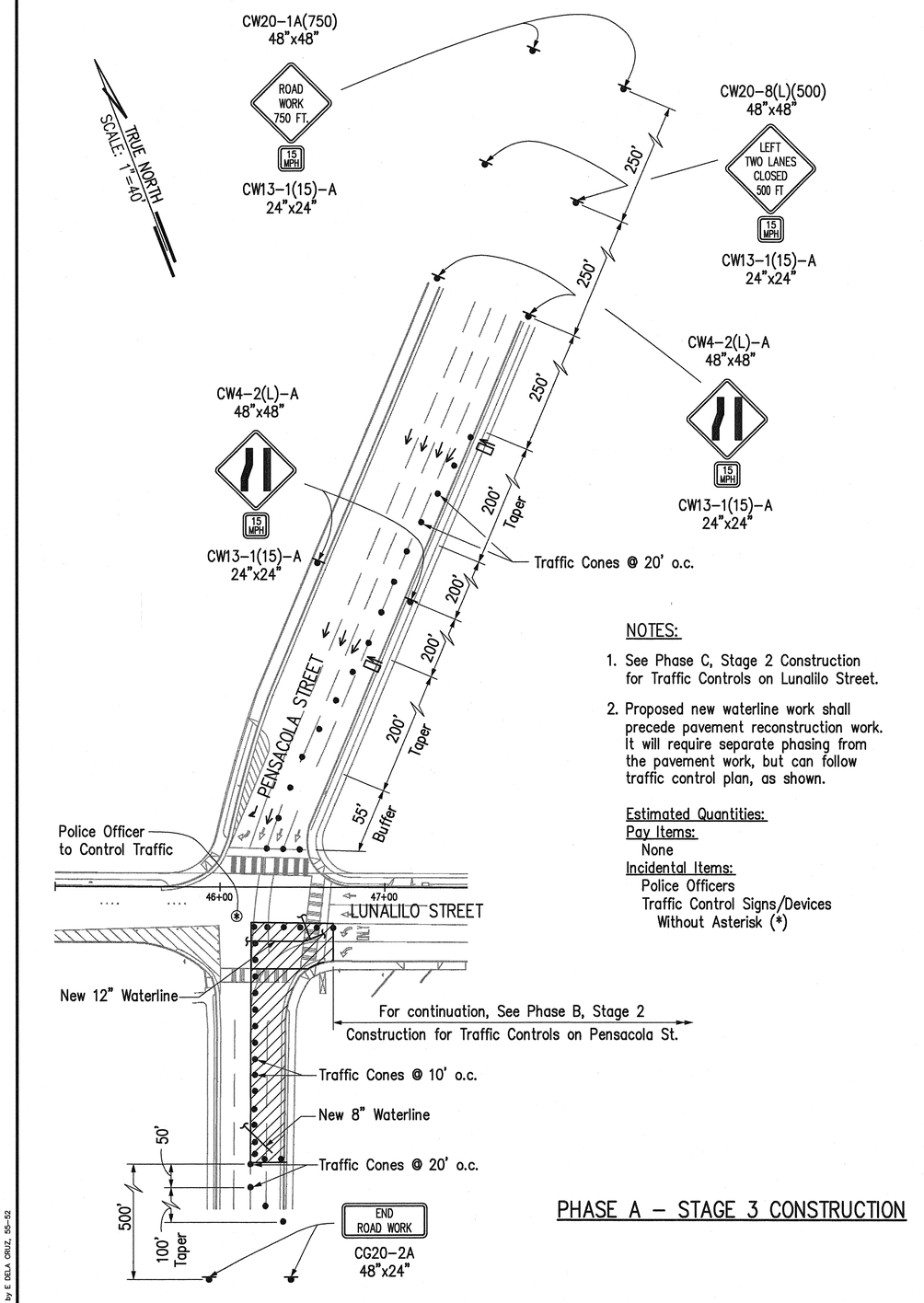
TCP FOR LUNALILO STREET

INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I. Project No. IM-H1-1(234)

Scale: 1" = 40' Date: June 1, 1999

SHEET No. F76 OF 114 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	232	557

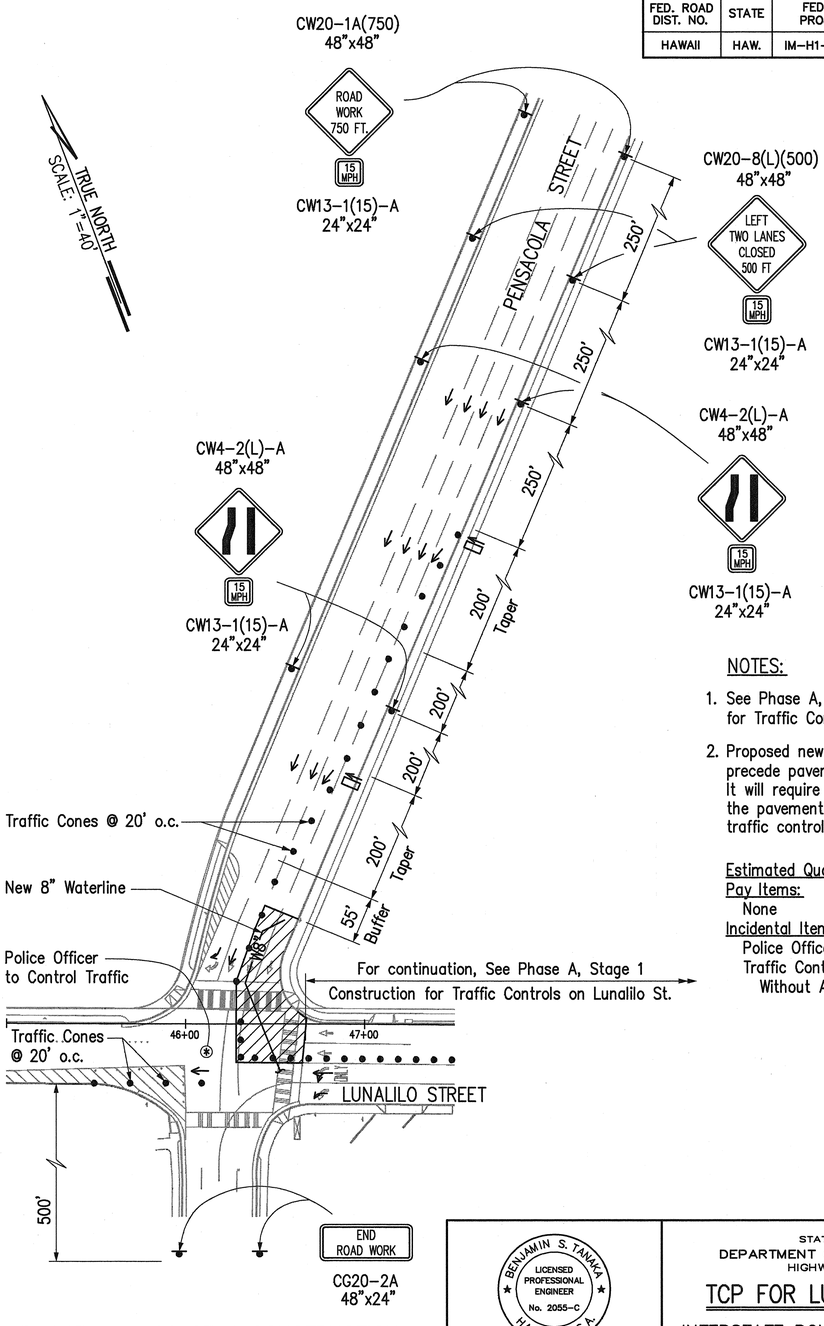


NOTES:

1. See Phase C, Stage 2 Construction for Traffic Controls on Lunalilo Street.
2. Proposed new waterline work shall precede pavement reconstruction work. It will require separate phasing from the pavement work, but can follow traffic control plan, as shown.

Estimated Quantities:
Pay Items:
None
Incidental Items:
Police Officers
Traffic Control Signs/Devices
Without Asterisk (*)

PHASE A – STAGE 3 CONSTRUCTION



NOTES:

1. See Phase A, Stage 1 Construction for Traffic Controls on Lunalilo Street.
2. Proposed new waterline work shall precede pavement reconstruction work. It will require separate phasing from the pavement work, but can follow traffic control plan, as shown.

Estimated Quantities:
Pay Items:
None
Incidental Items:
Police Officers
Traffic Control Signs/Devices
Without Asterisk (*)

PHASE A – STAGE 4 CONSTRUCTION

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

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LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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HIGHWAYS DIVISION

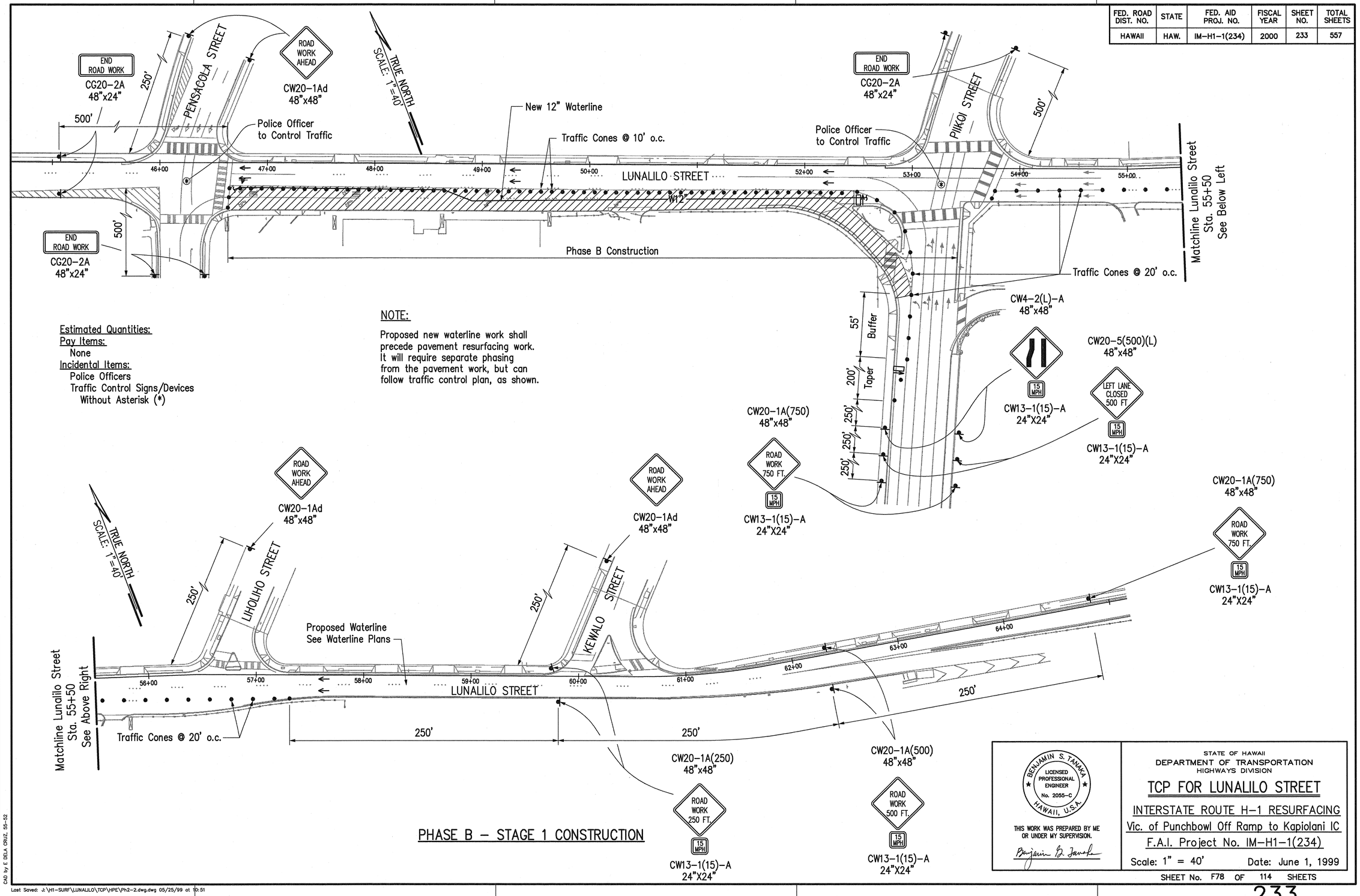
TCP FOR LUNALILO STREET

INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I. Project No. IM-H1-1(234)

Scale: 1" = 40' Date: June 1, 1999

SHEET No. F77 OF 114 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	233	557



Estimated Quantities:
Pay Items:
None
Incidental Items:
Police Officers
Traffic Control Signs/Devices Without Asterisk (*)

NOTE:

Proposed new waterline work shall precede pavement resurfacing work. It will require separate phasing from the pavement work, but can follow traffic control plan, as shown.

PHASE B – STAGE 1 CONSTRUCTION

DATE	
SURVEY PLOTTED BY	
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QUANTITIES BY	
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ORIGINAL PLAN	
NOTE BOOK	
No.	

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LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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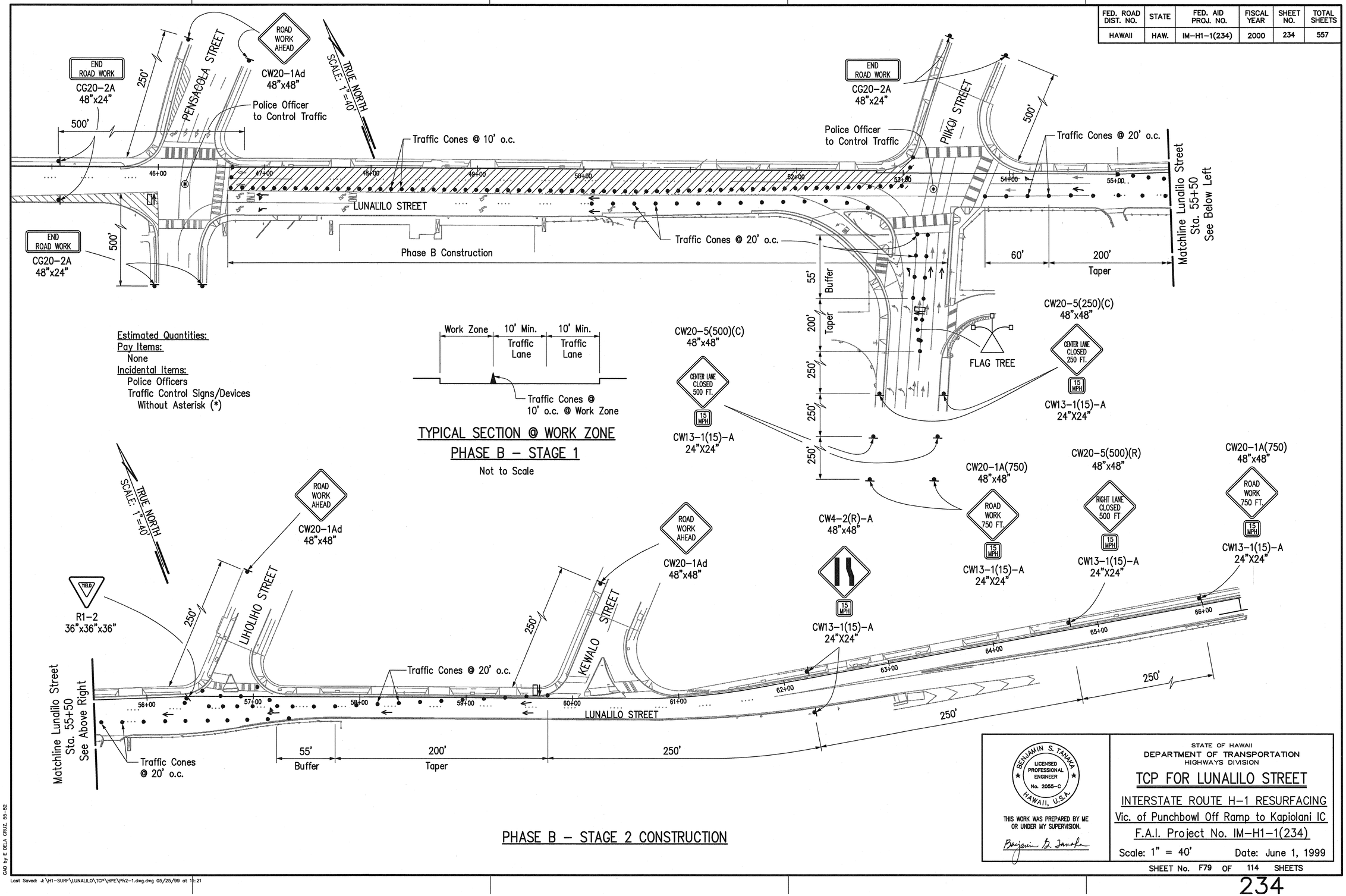
TCP FOR LUNALILO STREET

INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I. Project No. IM-H1-1(234)

Scale: 1" = 40' Date: June 1, 1999

SHEET No. F78 OF 114 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	234	557



Estimated Quantities:
Pay Items:
None
Incidental Items:
Police Officers
Traffic Control Signs/Devices
Without Asterisk (*)

TYPICAL SECTION @ WORK ZONE
PHASE B - STAGE 1
Not to Scale

PHASE B - STAGE 2 CONSTRUCTION

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

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LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TCP FOR LUNALILO STREET

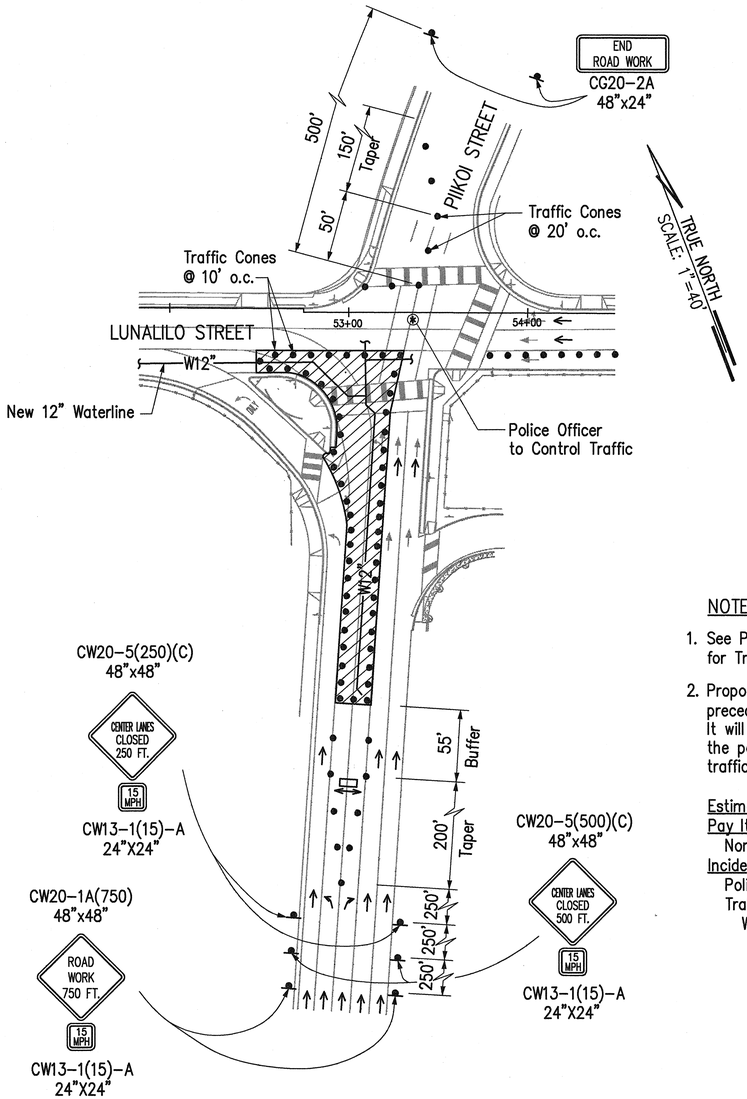
INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I. Project No. IM-H1-1(234)

Scale: 1" = 40' Date: June 1, 1999

SHEET No. F79 OF 114 SHEETS

234

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	235	557

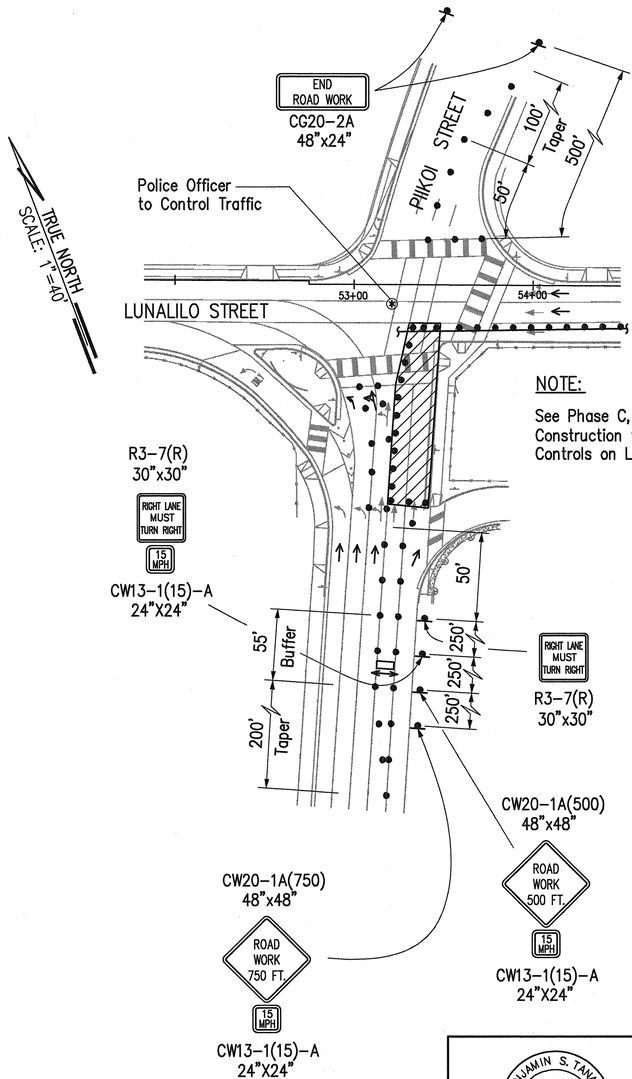


NOTES:

1. See Phase C, Stage 1 Construction for Traffic Controls on Lunalilo Street.
2. Proposed new waterline work shall precede pavement reconstruction work. It will require separate phasing from the pavement work, but can follow traffic control plan, as shown.

Estimated Quantities:
Pay Items:
None
Incidental Items:
Police Officers
Traffic Control Signs/Devices Without Asterisk (*)

PHASE B – STAGE 3A CONSTRUCTION



NOTE:

See Phase C, Stage 2 Construction for Traffic Controls on Lunalilo Street.

NOTES:

1. See Phase C, Stage 1 Construction for Traffic Controls on Lunalilo Street.
2. Proposed new waterline work shall precede pavement reconstruction work. It will require separate phasing from the pavement work, but can follow traffic control plan, as shown.

Estimated Quantities:
Pay Items:
None
Incidental Items:
Police Officers
Traffic Control Signs/Devices Without Asterisk (*)

PHASE B – STAGE 3B CONSTRUCTION

ORIGINAL PLAN | NOTE BOOK | No. | DATE
SURVEY PLOTTED BY
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QUANTITIES BY
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BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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Benjamin S. Tanaka

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DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

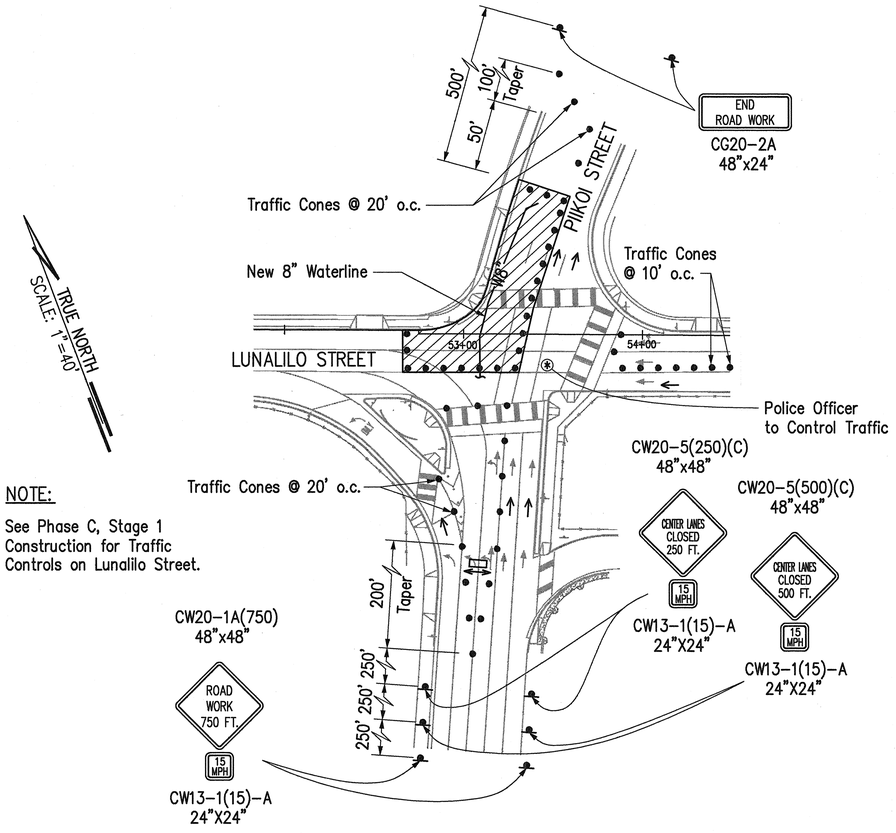
TCP FOR LUNALILO STREET

INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I. Project No. IM-H1-1(234)

Scale: 1" = 40' Date: June 1, 1999

SHEET No. F80 OF 114 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	236	557

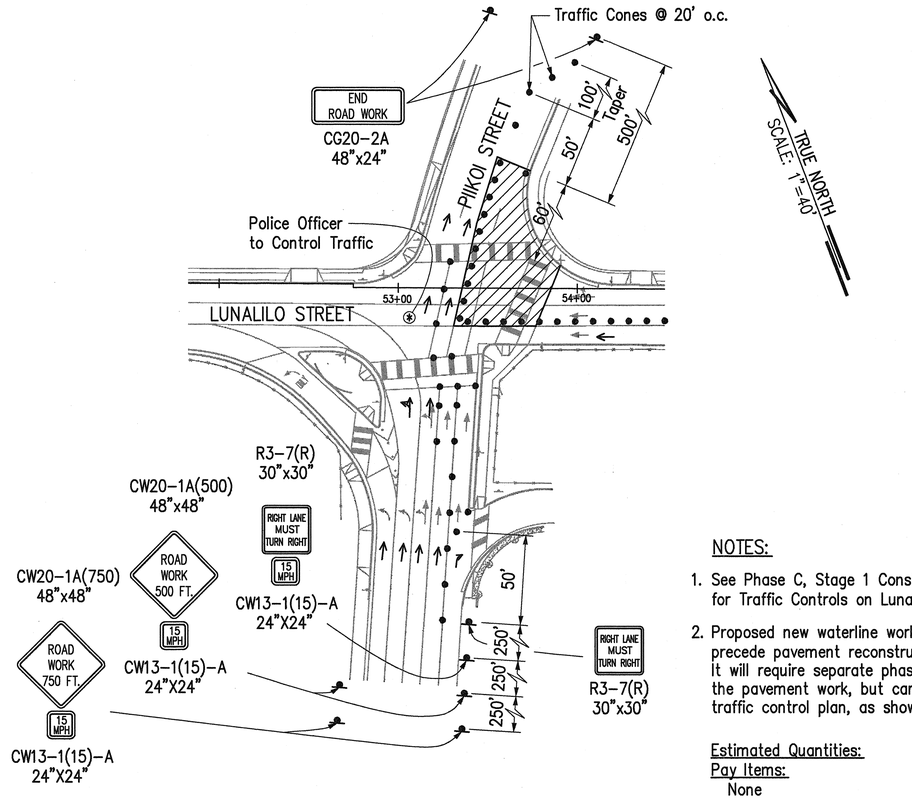


NOTES:

1. See Phase C, Stage 2 Construction for Traffic Controls on Lunalilo Street.
2. Proposed new waterline work shall precede pavement reconstruction work. It will require separate phasing from the pavement work, but can follow traffic control plan, as shown.

Estimated Quantities:
Pay Items:
None
Incidental Items:
Police Officers
Traffic Control Signs/Devices
Without Asterisk (*)

PHASE B – STAGE 4A CONSTRUCTION



NOTES:

1. See Phase C, Stage 1 Construction for Traffic Controls on Lunalilo Street.
2. Proposed new waterline work shall precede pavement reconstruction work. It will require separate phasing from the pavement work, but can follow traffic control plan, as shown.

Estimated Quantities:
Pay Items:
None
Incidental Items:
Police Officers
Traffic Control Signs/Devices
Without Asterisk (*)

PHASE B – STAGE 4B CONSTRUCTION

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

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LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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HIGHWAYS DIVISION

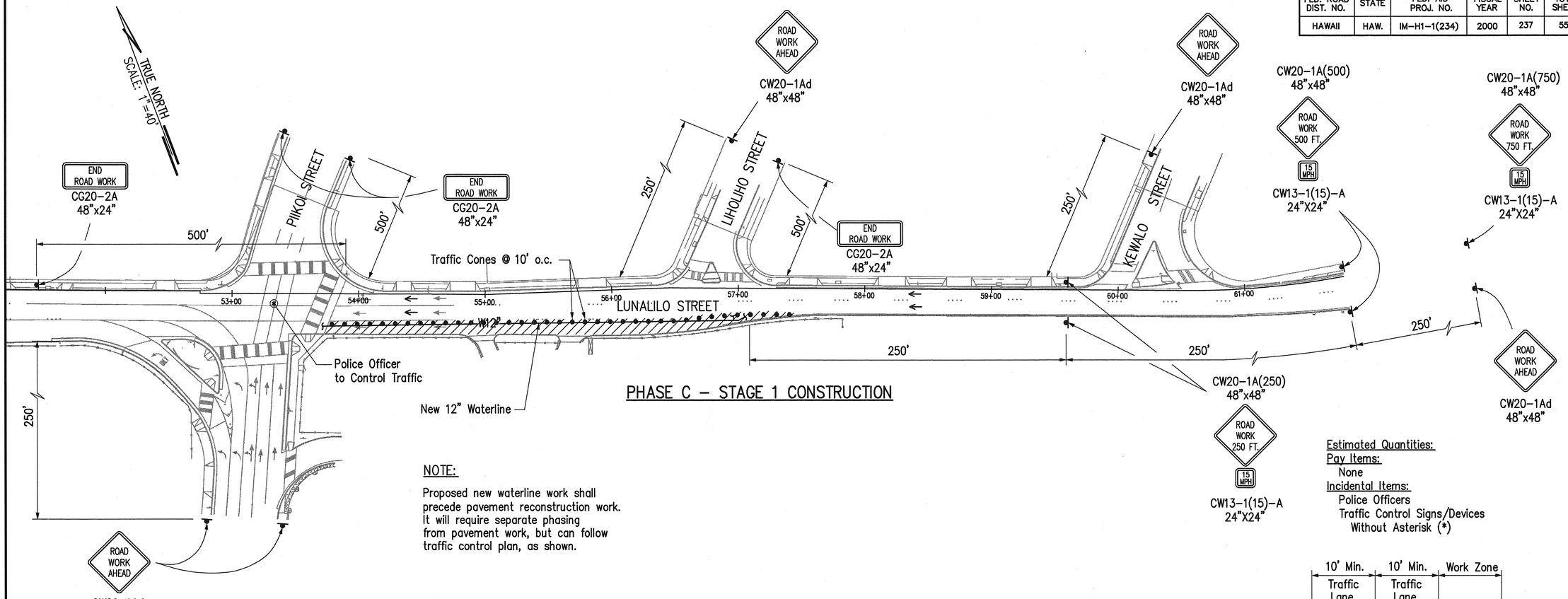
TCP FOR LUNALILO STREET

INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I. Project No. IM-H1-1(234)

Scale: 1" = 40' Date: June 1, 1999

SHEET No. F81 OF 114 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	237	557

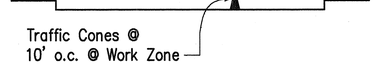


PHASE C – STAGE 1 CONSTRUCTION

NOTE:

Proposed new waterline work shall precede pavement reconstruction work. It will require separate phasing from pavement work, but can follow traffic control plan, as shown.

Estimated Quantities:
Pay Items:
None
Incidental Items:
Police Officers
Traffic Control Signs/Devices Without Asterisk (*)



TYPICAL SECTION @ WORK ZONE
PHASE C – STAGE 1
Not to Scale

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

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LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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Benjamin S. Tanaka

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DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TCP FOR LUNALILO STREET

INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I. Project No. IM-H1-1(234)

Scale: 1" = 40' Date: June 1, 1999

SHEET No. F82 OF 114 SHEETS

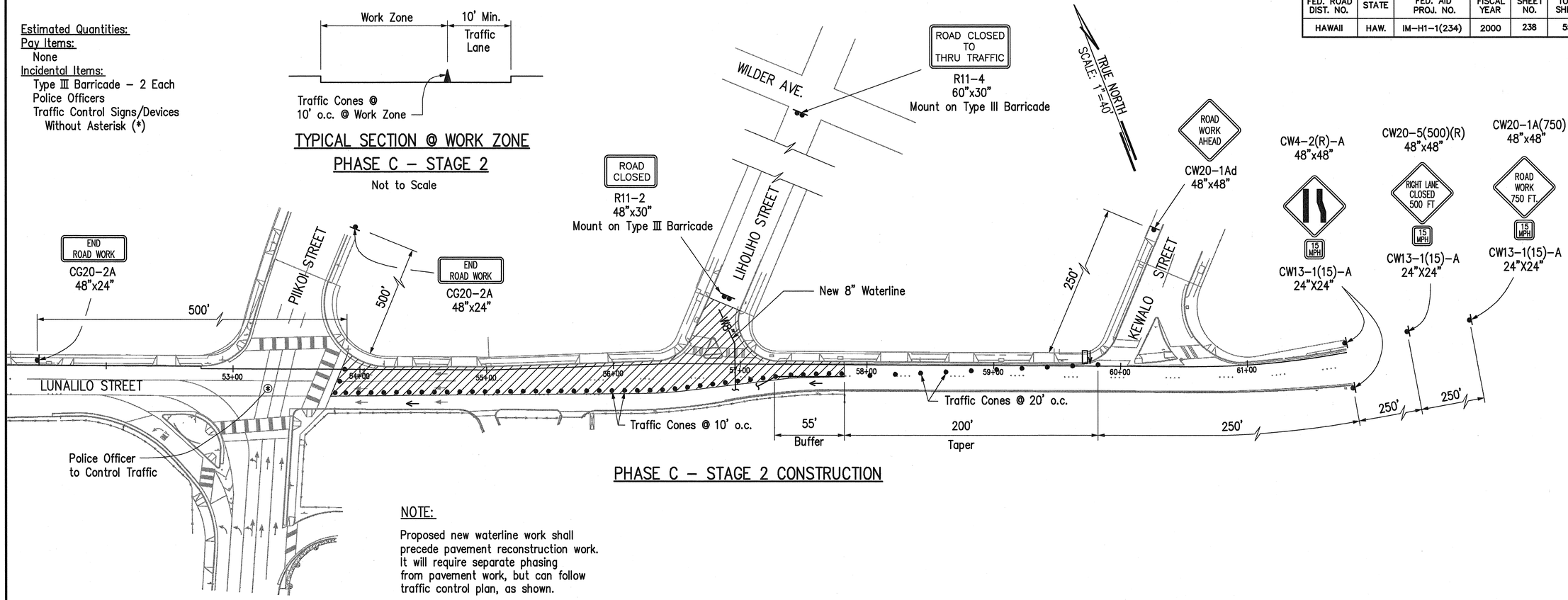
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	238	557

Estimated Quantities:
Pay Items:
None
Incidental Items:
Type III Barricade – 2 Each
Police Officers
Traffic Control Signs/Devices
Without Asterisk (*)

TYPICAL SECTION @ WORK ZONE

PHASE C – STAGE 2

Not to Scale



PHASE C – STAGE 2 CONSTRUCTION

NOTE:

Proposed new waterline work shall precede pavement reconstruction work. It will require separate phasing from pavement work, but can follow traffic control plan, as shown.

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NOTE BOOK	TRACED BY
	DESIGNED BY
No.	QUANTITIES BY
	CHECKED BY
	DATE

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LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TCP FOR LUNALILO STREET

INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I. Project No. IM-H1-1(234)

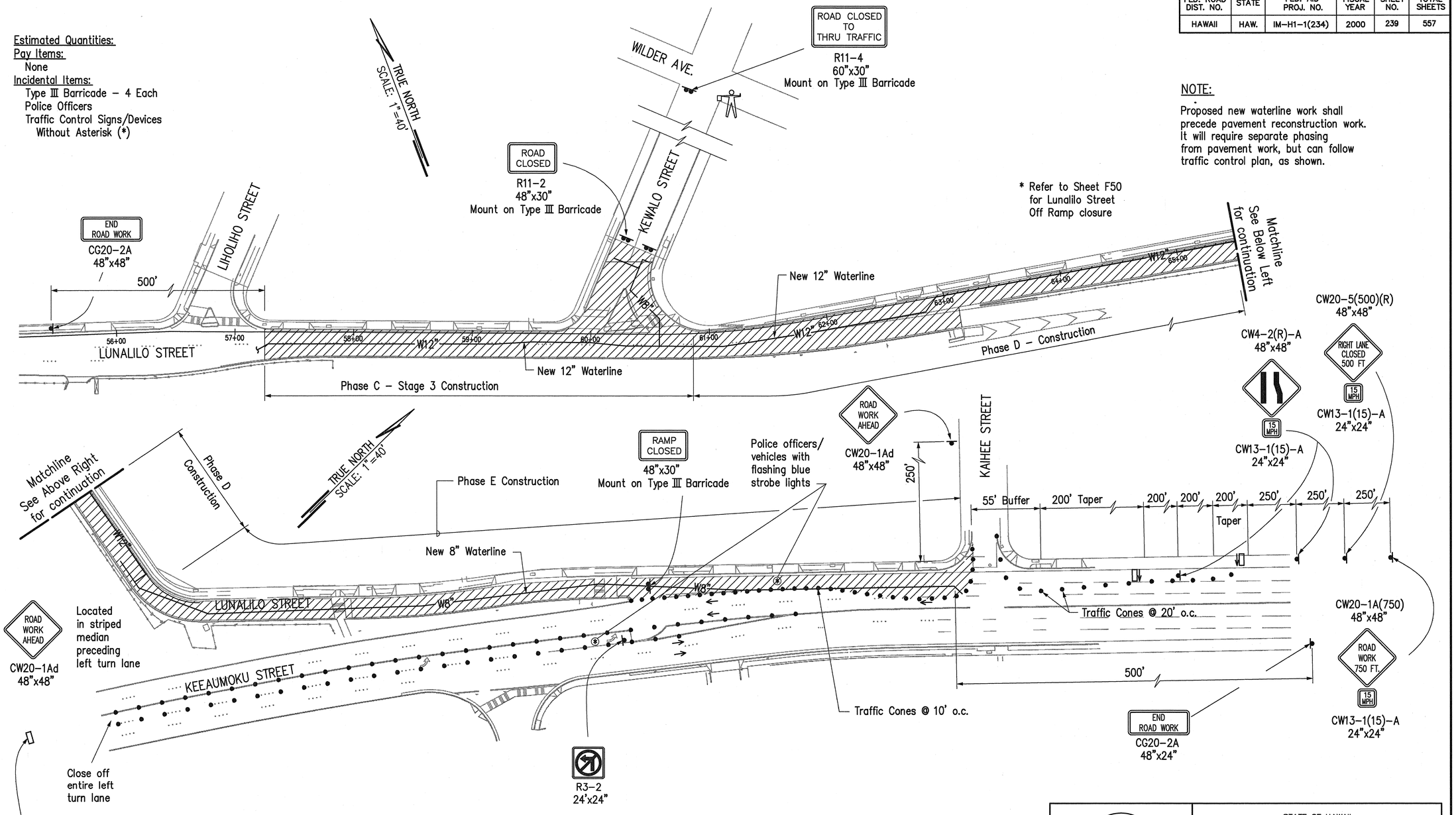
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SHEET No. F83 OF 114 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	239	557

Estimated Quantities:
Pay Items:
None
Incidental Items:
Type III Barricade – 4 Each
Police Officers
Traffic Control Signs/Devices
Without Asterisk (*)

NOTE:
Proposed new waterline work shall precede pavement reconstruction work. It will require separate phasing from pavement work, but can follow traffic control plan, as shown.



PHASE C – STAGE 3, PHASE D & PHASE E CONSTRUCTION (SUNDAY WORK)

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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Benjamin S. Tanaka

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HIGHWAYS DIVISION

TCP FOR LUNALILO STREET

INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I. Project No. IM-H1-1(234)

Scale: 1" = 40' Date: June 1, 1999

SHEET No. F84 OF 114 SHEETS

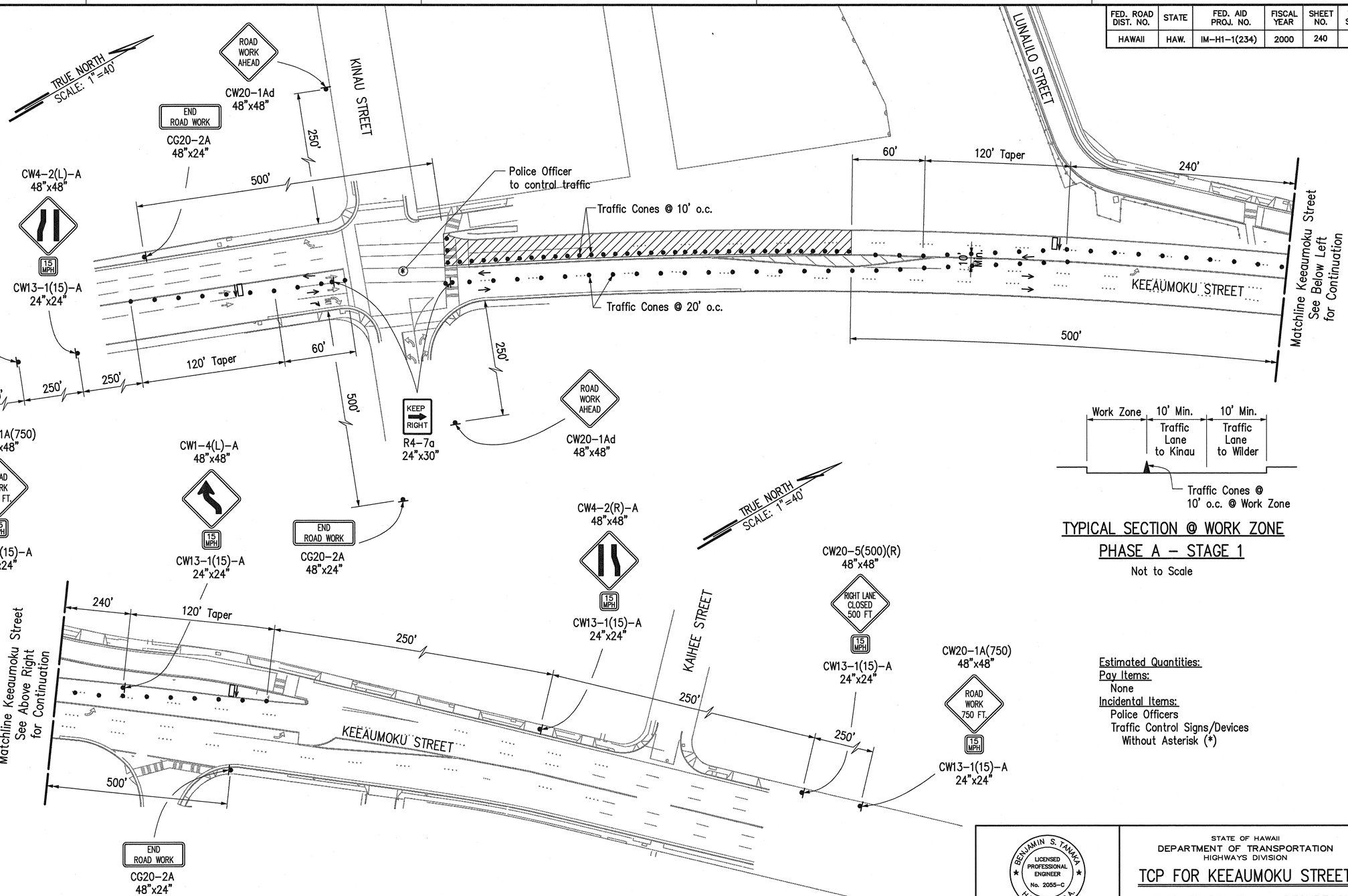
239

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

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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	240	557



PHASE A – STAGE 1 CONSTRUCTION

TYPICAL SECTION @ WORK ZONE
PHASE A – STAGE 1
Not to Scale

Estimated Quantities:
Pay Items:
None
Incidental Items:
Police Officers
Traffic Control Signs/Devices Without Asterisk (*)

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

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LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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HIGHWAYS DIVISION

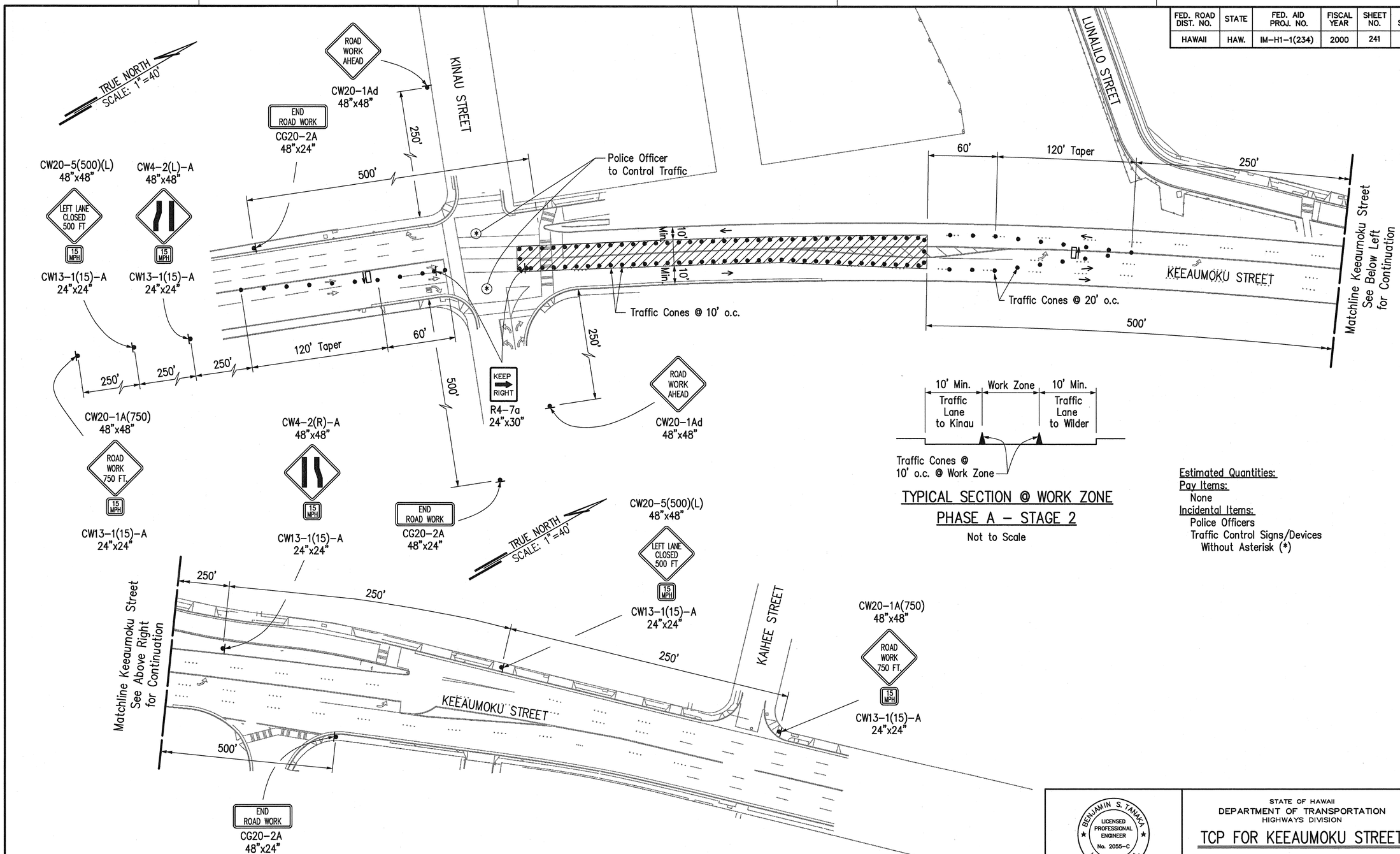
TCP FOR KEEAUMOKU STREET

INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I. Project No. IM-H1-1(234)

Scale: 1" = 40' Date: June 1, 1999

SHEET No. F85 OF 114 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	241	557



PHASE A – STAGE 2 CONSTRUCTION

TYPICAL SECTION @ WORK ZONE
PHASE A – STAGE 2
Not to Scale

Estimated Quantities:
Pay Items:
None
Incidental Items:
Police Officers
Traffic Control Signs/Devices Without Asterisk (*)

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

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LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TCP FOR KEEAUMOKU STREET

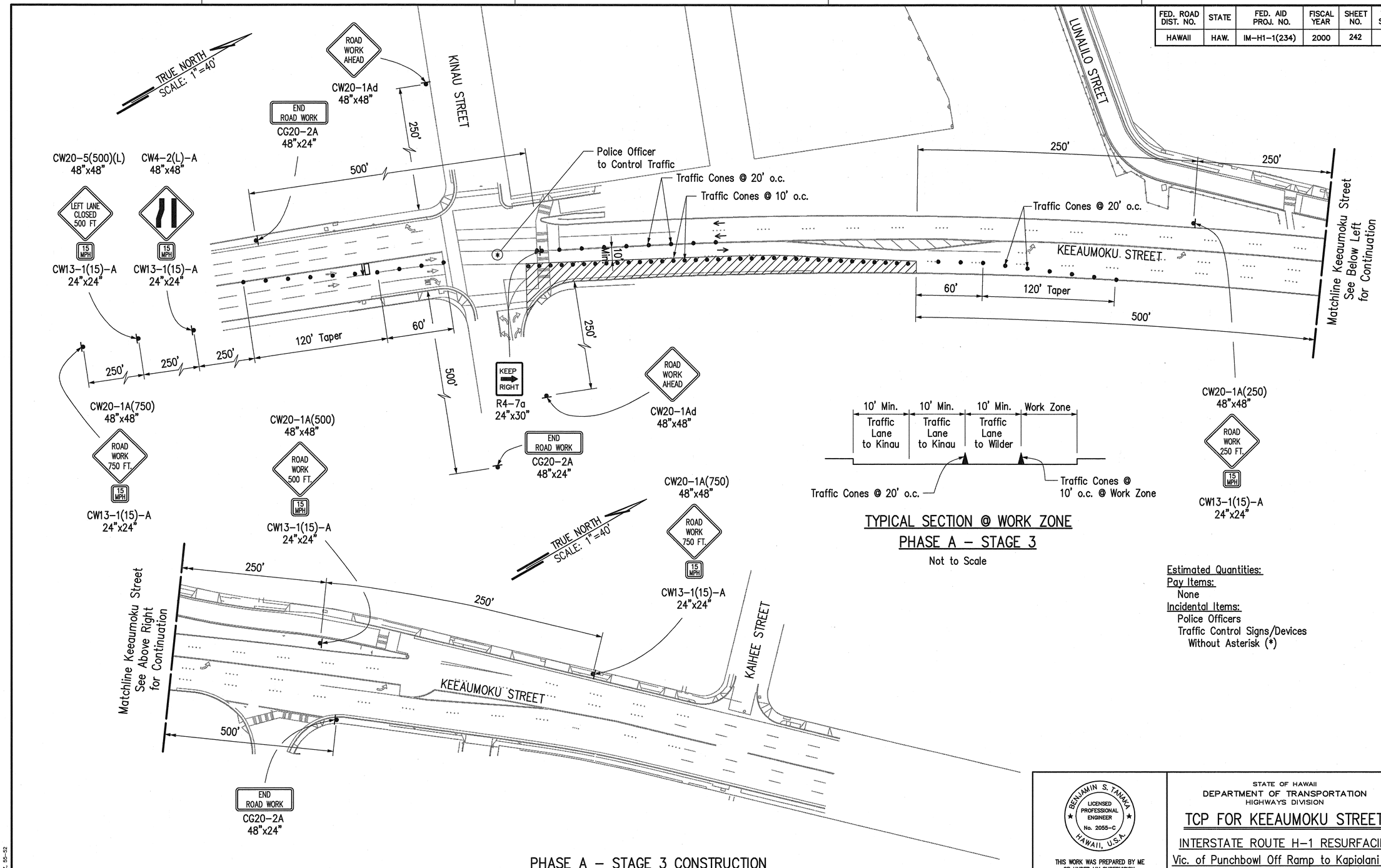
INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I. Project No. IM-H1-1(234)

Scale: 1" = 40' Date: June 1, 1999

SHEET No. F86 OF 114 SHEETS

241

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	242	557



TYPICAL SECTION @ WORK ZONE
PHASE A – STAGE 3
Not to Scale

PHASE A – STAGE 3 CONSTRUCTION

Estimated Quantities:
Pay Items:
None
Incidental Items:
Police Officers
Traffic Control Signs/Devices Without Asterisk (*)

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

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LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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Benjamin S. Tanaka

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DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TCP FOR KEEAUMOKU STREET

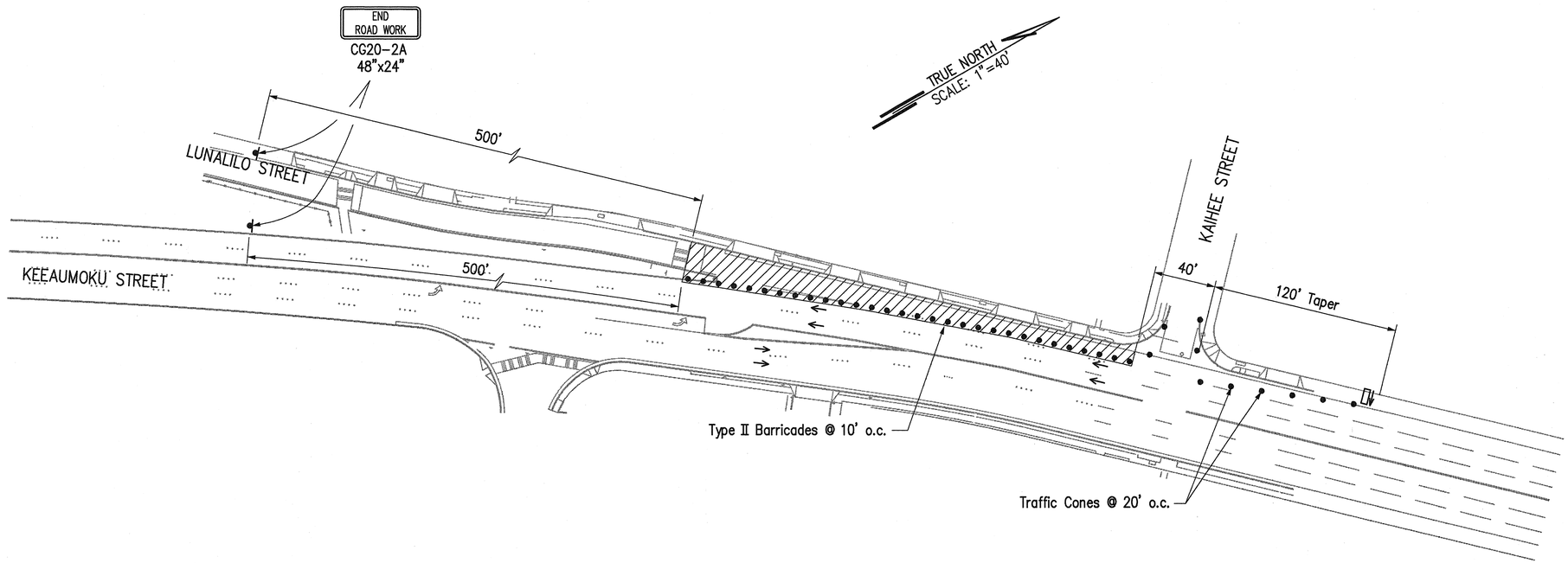
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Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I. Project No. IM-H1-1(234)

Scale: 1" = 40' Date: June 1, 1999

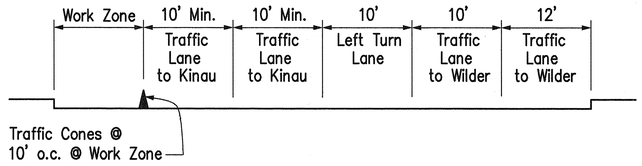
SHEET No. F87 OF 114 SHEETS

242

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	243	557



Estimated Quantities:
Pay Items:
None
Incidental Items:
Police Officers
Traffic Control Signs/Devices Without Asterisk (*)



TYPICAL SECTION @ WORK ZONE
PHASE B – STAGE 1
Not to Scale

PHASE B – STAGE 1 CONSTRUCTION
Refer to Sheet F84 for Details

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TCP FOR KEEAUMOKU STREET

INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I. Project No. IM-H1-1(234)

Scale: 1" = 40' Date: June 1, 1999

SHEET No. F88 OF 114 SHEETS

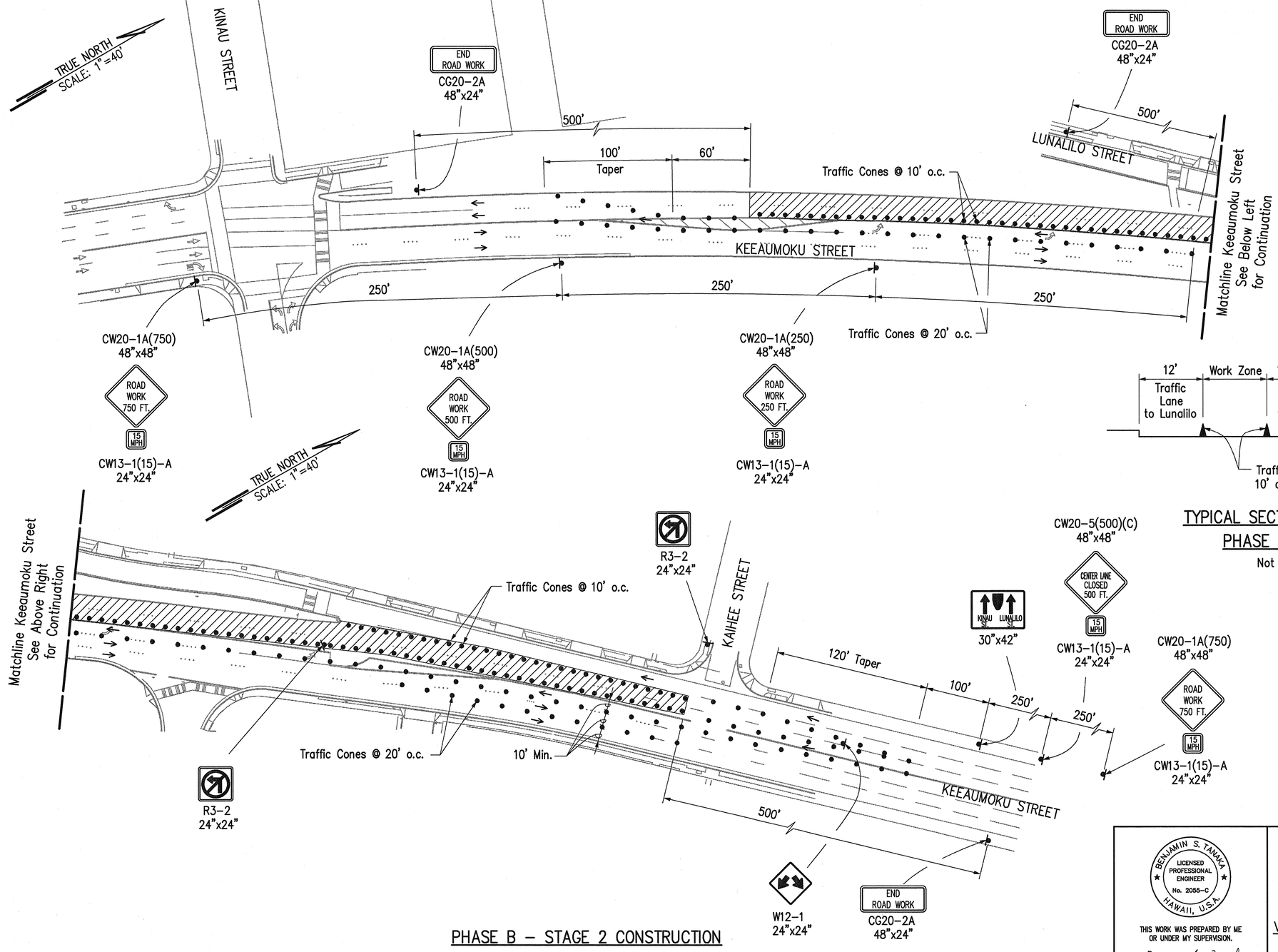
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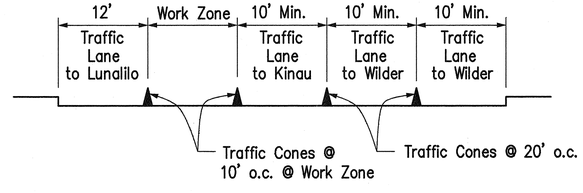
ORIGINAL PLAN | NOTE BOOK | No.
SURVEY PLOTTED BY | DRAWN BY | TRACED BY | DESIGNED BY | QUANTITIES BY | CHECKED BY | DATE

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FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	244	557





TYPICAL SECTION @ WORK ZONE
PHASE B – STAGE 2

Not to Scale

PHASE B – STAGE 2 CONSTRUCTION

Estimated Quantities:
Pay Items:
None
Incidental Items:
Traffic Control Signs/Devices
Without Asterisk (*)

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

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LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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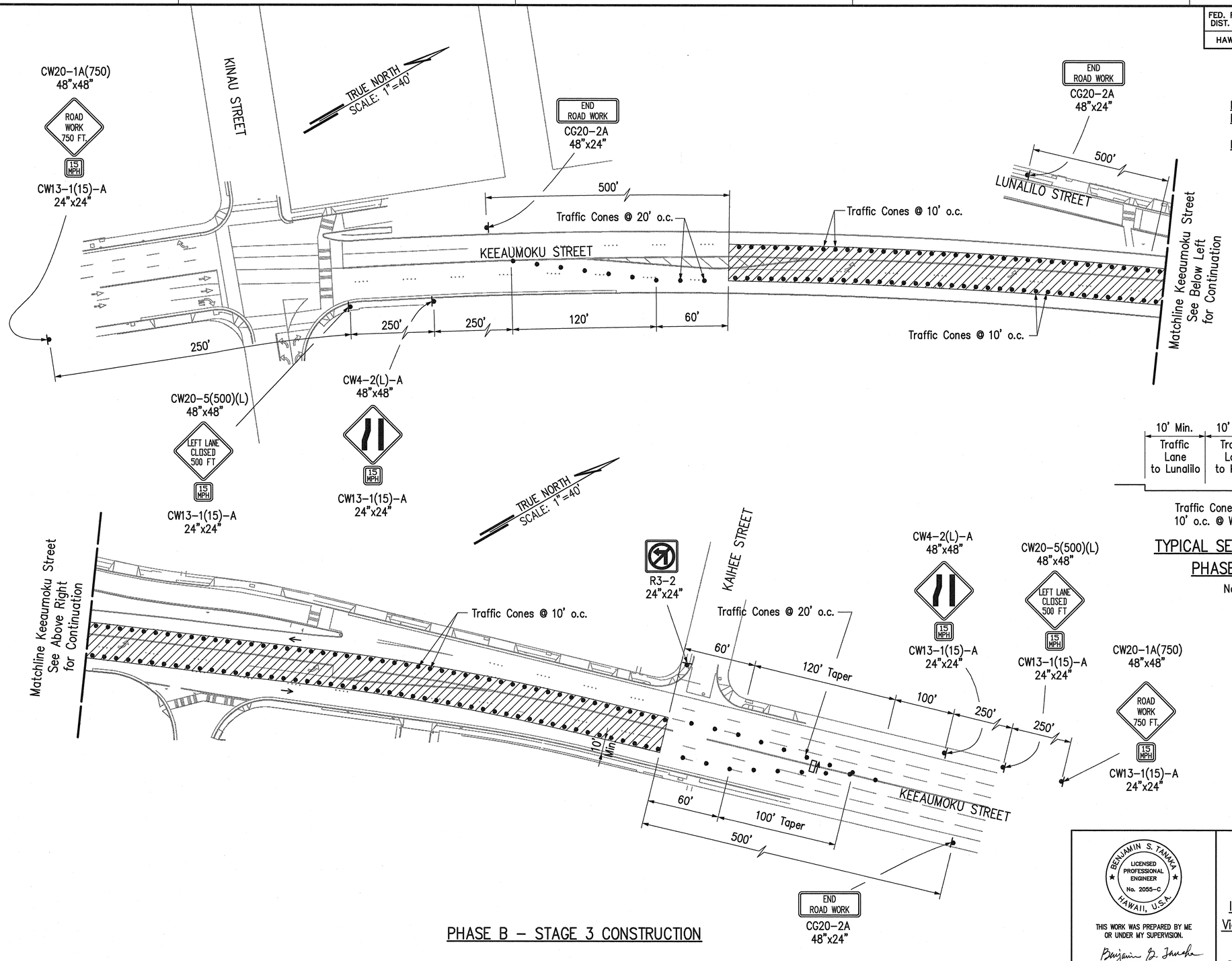
TCP FOR KEEAUMOKU STREET

INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I. Project No. IM-H1-1(234)

Scale: 1" = 40' Date: June 1, 1999

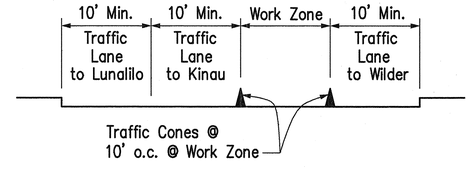
SHEET No. F89 OF 114 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	245	557



PHASE B – STAGE 3 CONSTRUCTION

Estimated Quantities:
Pay Items:
None
Incidental Items:
Traffic Control Signs/Devices
Without Asterisk (*)



TYPICAL SECTION @ WORK ZONE
PHASE B – STAGE 3
Not to Scale

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
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	TRACED BY	
NOTE BOOK	DESIGNED BY	
	QUANTITIES BY	
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LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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STATE OF HAWAII
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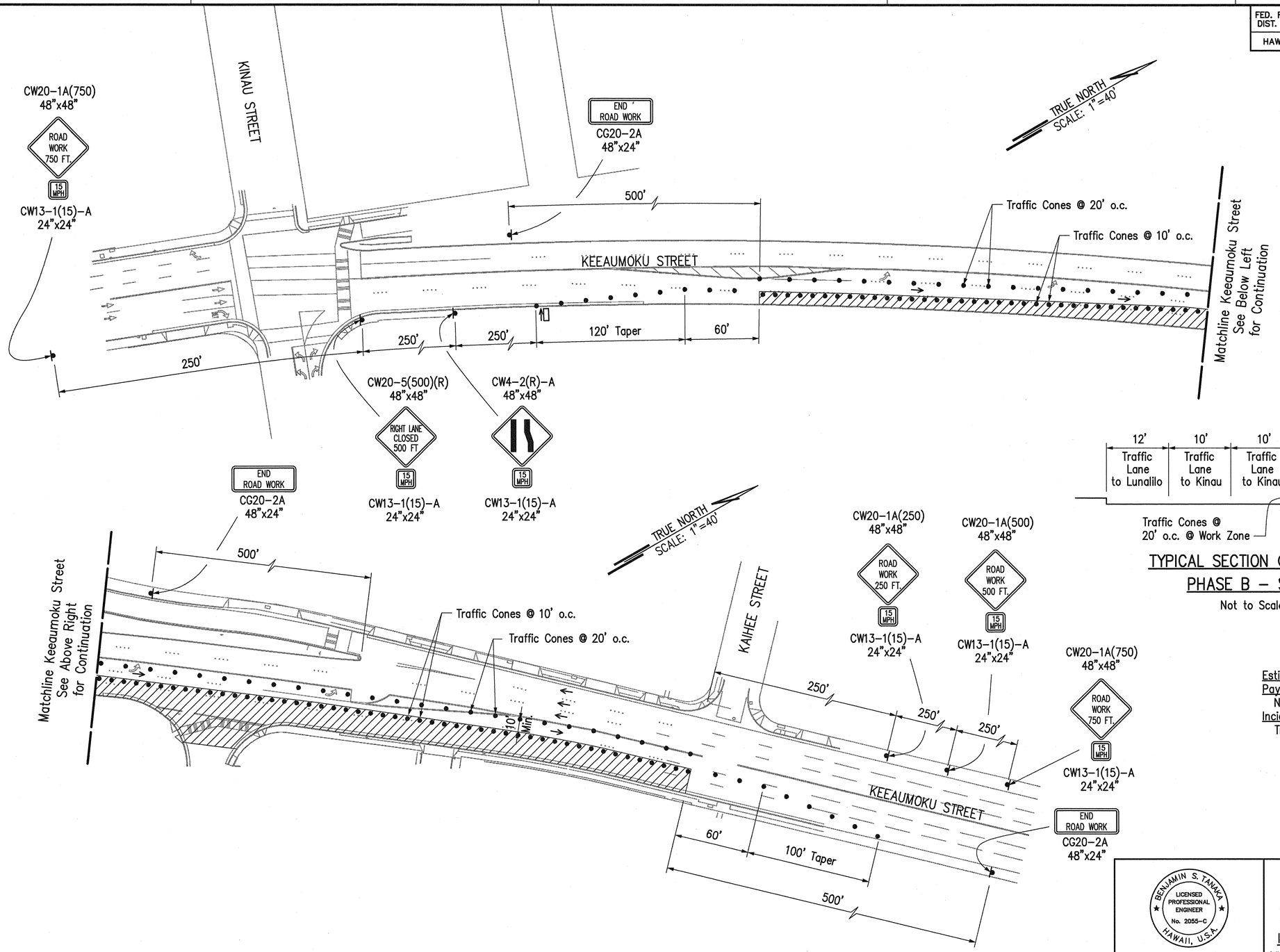
TCP FOR KEEAUMOKU STREET

INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I. Project No. IM-H1-1(234)

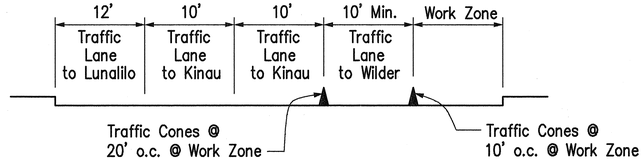
Scale: 1" = 40' Date: June 1, 1999

SHEET No. F90 OF 114 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	246	557



PHASE B – STAGE 4 CONSTRUCTION



TYPICAL SECTION @ WORK ZONE
PHASE B – STAGE 4
Not to Scale

Estimated Quantities:
Pay Items:
None
Incidental Items:
Traffic Control Signs/Devices
Without Asterisk (*)

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

CAD by E DELA CRUZ, 55-52

Last Saved: J:\H1-SURF\LUNALILO\TCP\HPE\Kph2-4.dwg.dwg 05/25/99 at 11:55

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

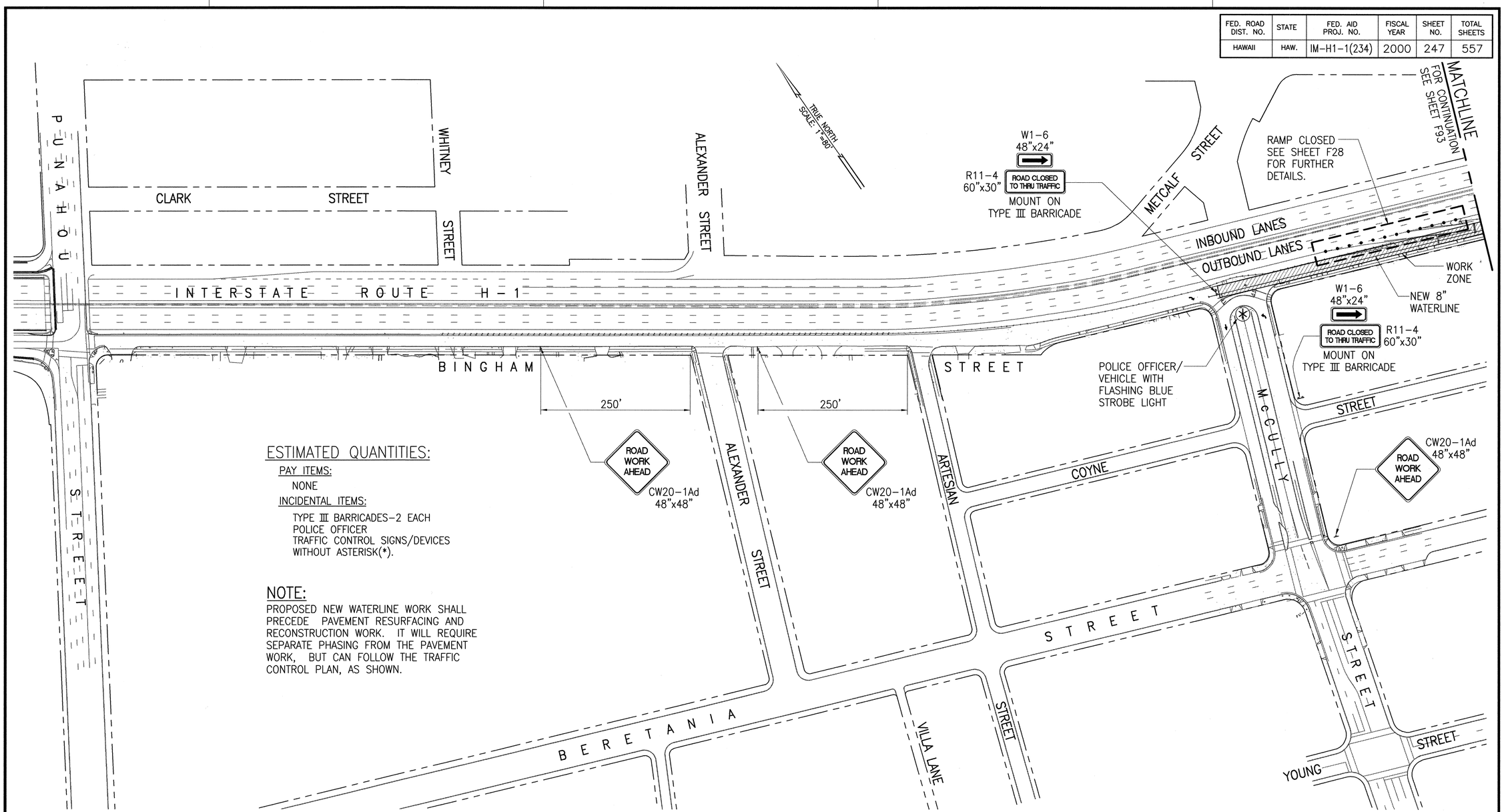
TCP FOR KEEAUMOKU STREET

INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I. Project No. IM-H1-1(234)

Scale: 1" = 40' Date: June 1, 1999

SHEET No. F91 OF 114 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	247	557



ESTIMATED QUANTITIES:

PAY ITEMS:

NONE

INCIDENTAL ITEMS:

TYPE III BARRICADES-2 EACH
POLICE OFFICER
TRAFFIC CONTROL SIGNS/DEVICES
WITHOUT ASTERISK(*).

NOTE:

PROPOSED NEW WATERLINE WORK SHALL PRECEDE PAVEMENT RESURFACING AND RECONSTRUCTION WORK. IT WILL REQUIRE SEPARATE PHASING FROM THE PAVEMENT WORK, BUT CAN FOLLOW THE TRAFFIC CONTROL PLAN, AS SHOWN.

P:\98-35\TCPL-B1A.DWG
072199

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

TCP – PHASE B1: BINGHAM STREET

SCALE: 1"=80'

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TCP FOR BINGHAM STREET

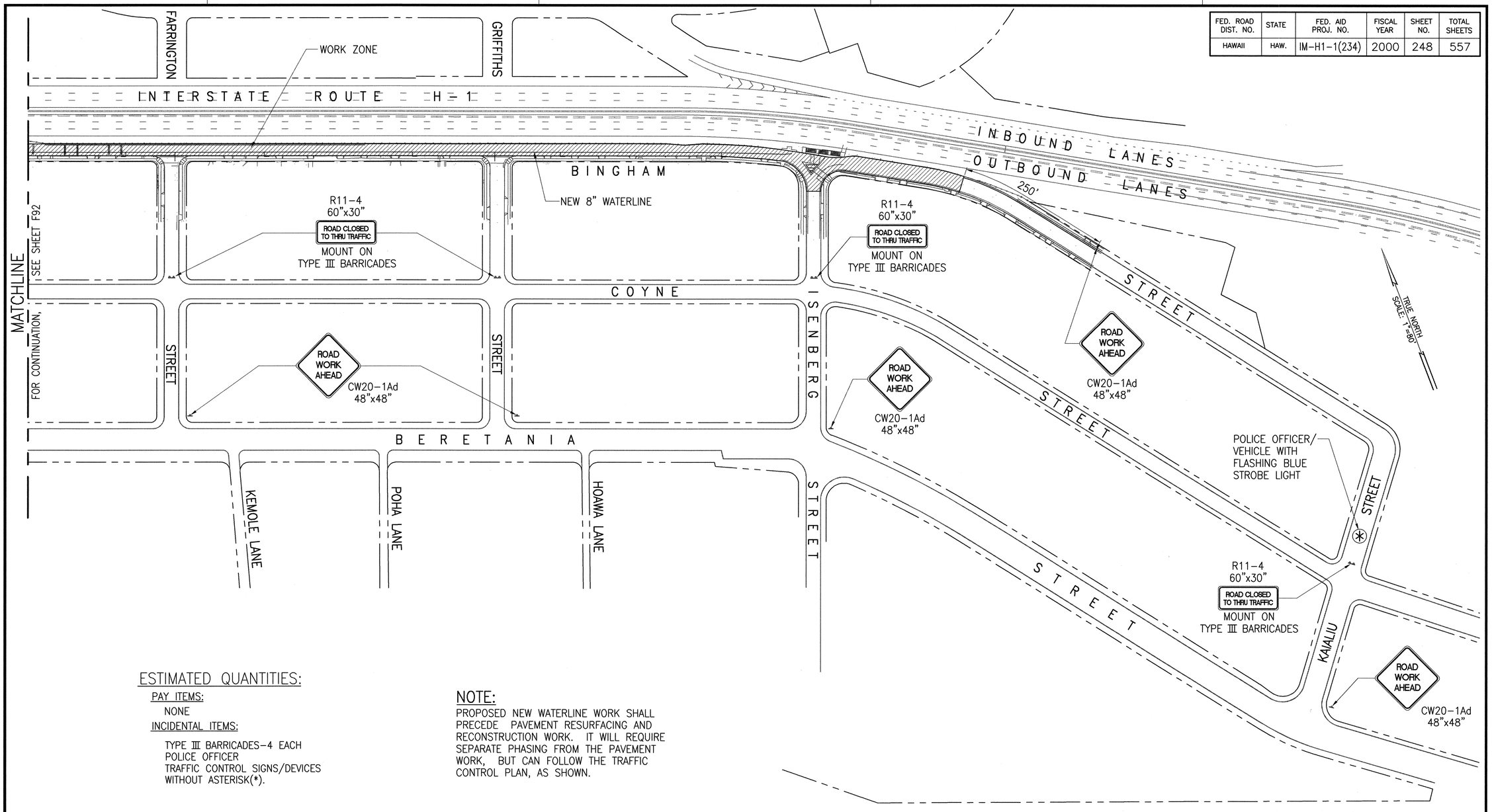
INTERSTATE ROUTE H-1 RESURFACING

Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

Scale: 1"=80' Date: JUNE 1, 1999

SHEET NO. F92 OF 114 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	248	557



ESTIMATED QUANTITIES:

PAY ITEMS:

NONE

INCIDENTAL ITEMS:

TYPE III BARRICADES-4 EACH
POLICE OFFICER
TRAFFIC CONTROL SIGNS/DEVICES WITHOUT ASTERISK(*).

NOTE:

PROPOSED NEW WATERLINE WORK SHALL PRECEDE PAVEMENT RESURFACING AND RECONSTRUCTION WORK. IT WILL REQUIRE SEPARATE PHASING FROM THE PAVEMENT WORK, BUT CAN FOLLOW THE TRAFFIC CONTROL PLAN, AS SHOWN.

TCP - PHASE B1: BINGHAM STREET

SCALE: 1"=80'

PN: 98-35\TCPL-B1B.DWG
07/21/99

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

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

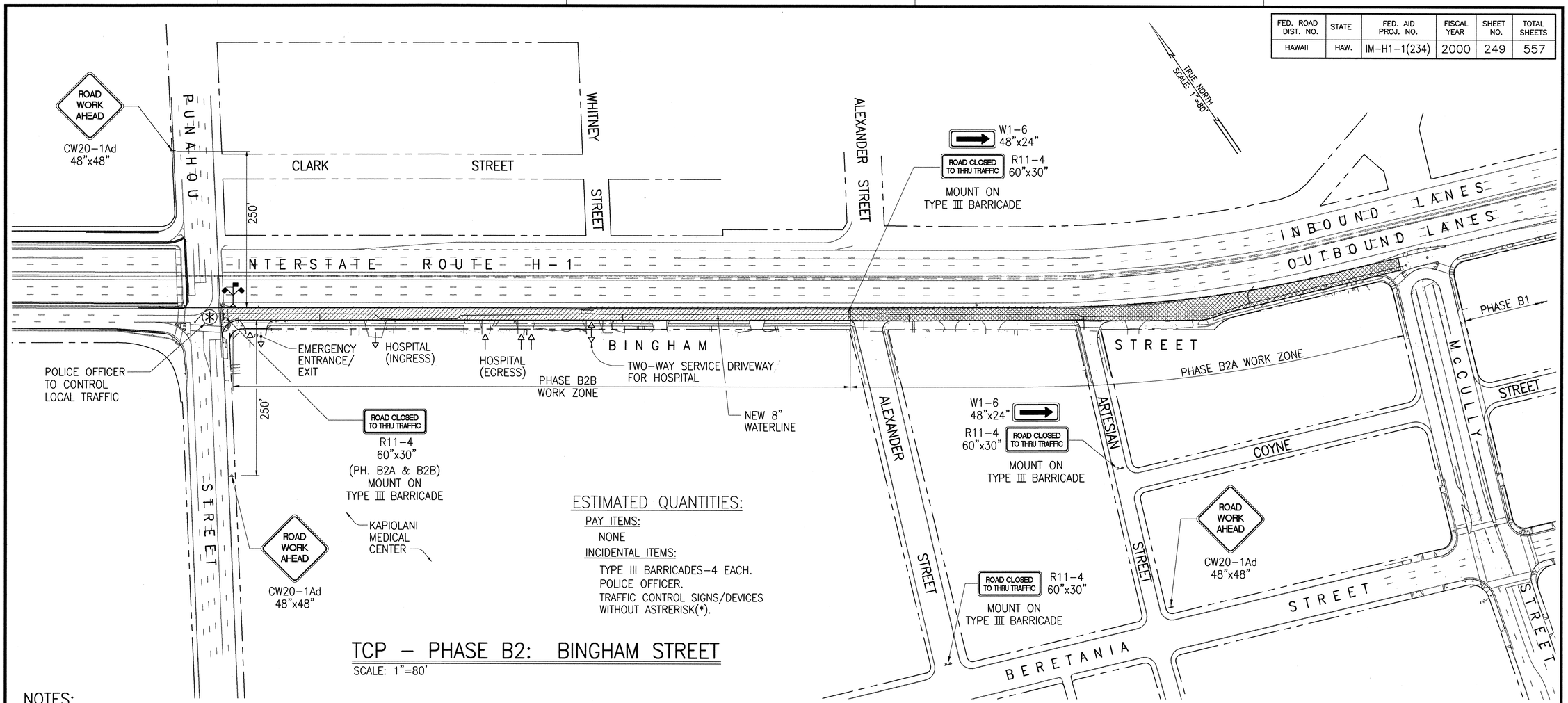
TCP FOR BINGHAM STREET

INTERSTATE ROUTE H-1 RESURFACING

Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)
Scale: 1"=80' Date: JUNE 1, 1999

SHEET NO. F93 OF 114 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	249	557



ESTIMATED QUANTITIES:

PAY ITEMS:

NONE

INCIDENTAL ITEMS:

TYPE III BARRICADES-4 EACH.
POLICE OFFICER.
TRAFFIC CONTROL SIGNS/DEVICES WITHOUT ASTRERISK(*).

TCP - PHASE B2: BINGHAM STREET

SCALE: 1"=80'

F:\ 98-35\TCPL-B2.DWG
07/2099

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

NOTES:

1. Proposed new waterline work shall precede pavement resurfacing and reconstruction work. It will require separate phasing from the pavement work, but can follow the traffic control plan, as shown.

2. KAPIOLANI MEDICAL CENTER (KMC)
   A. To maintain traffic circulation to and from KMC during the construction hours of 9:00 am to 3:00 pm., Mondays to Fridays, excluding holidays, the pavement reconstruction work shall be done half-at-a-time with a 10' minimum lane (coned at 10' o.c.) provided between Punahou and Alexander Streets at all times. The full-width pavement along Bingham Street shall be provided to KMC at all other times. The Engineer will assess liquidated damages of $5,000 for every 15-minute increment, or any portion thereof, for each lane not opened to the public on time. The maximum amount assessed per day shall be $50,000. The Engineer will decide the time and liquidated damages assessed. Also, provide similar access requirements during construction of the 8-inch water main.

   B. The work on the concrete driveway aprons for the hospital driveways shall be phased after all the pavement work on Bingham Street is completed between Punahou and Alexander Streets.

   C. Temporary driveway widening (2" AC, Mix No. IV, with 6" base course), as shown on Sheet DR21, shall be provided to improve maneuverability into these driveways. The extent of driveway widening shall be determined by the Engineer. These drive-ways, including landscaping, shall be restored to its original condition upon completion of the work. Said construction and restoration work shall be paid under the force account item. Additional Police Officers and/or Additional Traffic Control Devices-Frontage Roads.

   D. Police officer(s) shall be provided during the hours of 7:00 am to 3:30 pm during the construction work day when construction is proceeding in front of KMC to assist with ambulance traffic, delivery vehicles, and patients entering or exiting KMC properties. Costs for providing said police officer(s) shall be incidental to the various contract items. If police officer(s) are required at other times and are requested by the Engineer, costs for said police officer(s) shall be paid under the force account item. Additional Police Officers and/or Additional Traffic Control Devices-Frontage Roads.

   E. A pavement area approximately 150'x20' wide, is shown on sheet DR23, which is adjacent to the two-way service driveway. Delivery trucks, including a semitrailer truck combination vehicle, backs into this driveway on a daily basis. The area shown represents the maneuverable space required for the semitrailer vehicle. Construction for this pavement area shall be phased between the hours of 9:00 am to 3:00 pm where a 10' minimum lane shall be provided at all times. At the end of the work day from 3:00 pm., this entire pavement area shall be fully restored to receive the delivery trucks until 9:00 am the following day. This same requirement shall also apply for the 8-inch water main in this area.

   F. Coordination with KMC shall be with Ms. Cathy Camp, Head of Security and Facilities, Phone 983-8342. The Contractor shall provide KMC with a complaint response person and a phone number. The Contractor shall maintain a log of all complaints with appropriate actions taken for the Engineer's and KMC's review. The objective is to resolve all complaints within 3 working days, if possible.

   G. With the exceptions of Note 2C and the second part of Note 2D, all other costs associated with the phasing and traffic control for KMC shall be incidental to the various contract items.

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

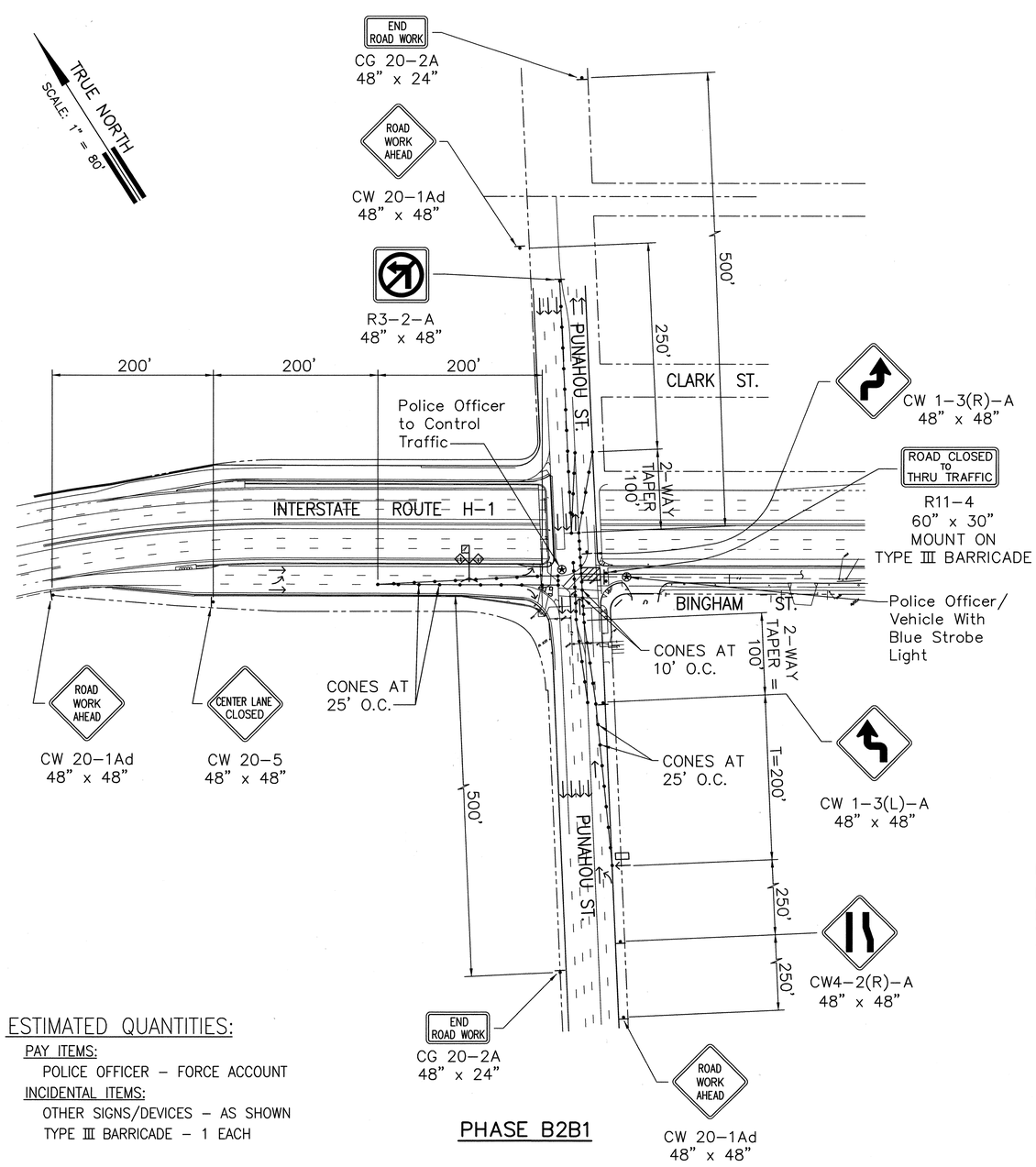
TCP FOR BINGHAM STREET

INTERSTATE ROUTE H-1 RESURFACING

Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)
Scale: 1"=80' Date: JUNE 1, 1999

SHEET NO. F94 OF 114 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	250	557



PHASE B2B1

PHASE B2B2

NOTE:

Proposed new waterline work shall precede pavement resurfacing and reconstruction work. It will require separate phasing from the pavement work, but can follow the traffic control plan, as shown.

ESTIMATED QUANTITIES:

PAY ITEMS:

POLICE OFFICER – FORCE ACCOUNT

INCIDENTAL ITEMS:

OTHER SIGNS/DEVICES – AS SHOWN

TYPE III BARRICADE – 1 EACH

ESTIMATED QUANTITIES:

PAY ITEMS:

None

Incidental Items:

Traffic Control Signs/Devices Without Asterisk (*)

Type III Barricade – 1 Each

Police Officer

TRAFFIC CONTROL PLAN – PHASE B2B: BINGHAM STREET AT PUNAHOU STREET

SCALE: 1"=80'

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TCP FOR BINGHAM STREET

INTERSTATE ROUTE H-1 RESURFACING

Vic. of Punchbowl Off Ramp to Kapiolani IC

F.A.I Project No. IM-H1-1(234)

Scale: 1"=80' Date: June 1, 1999

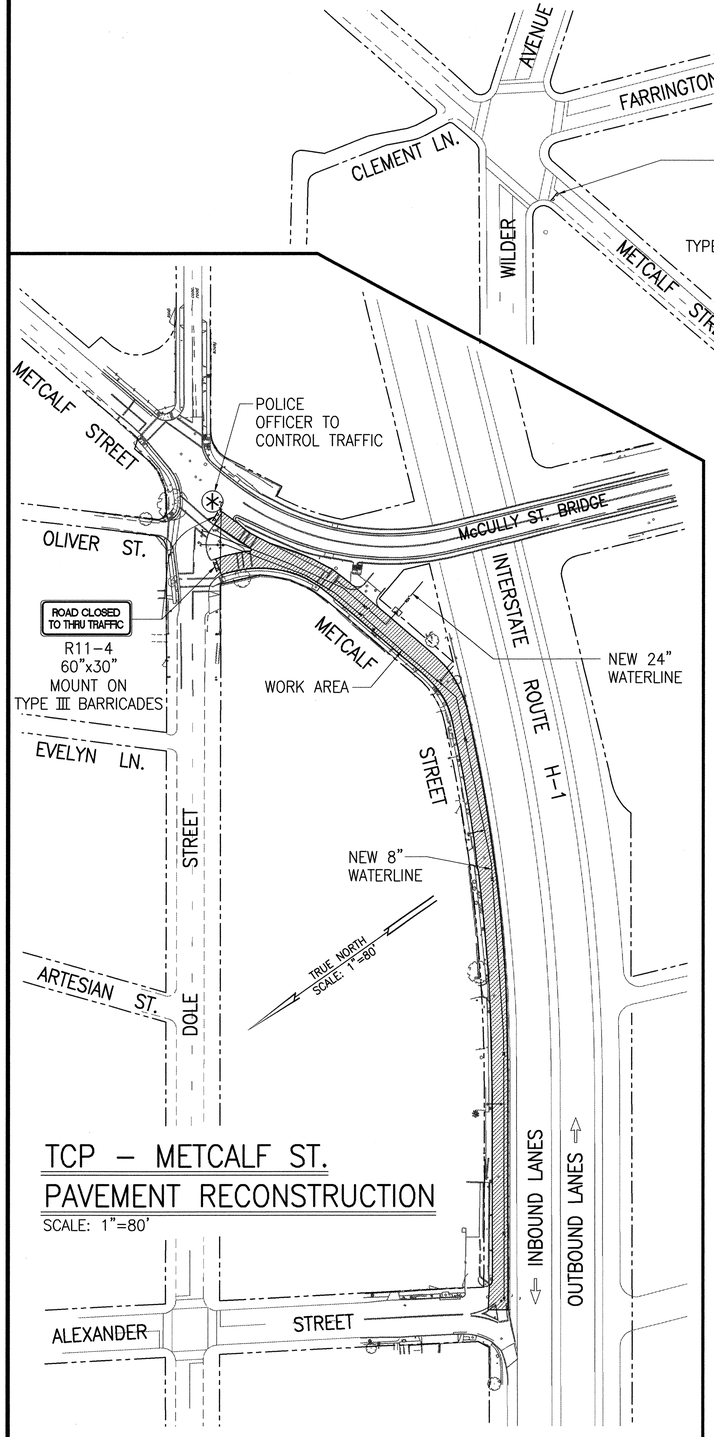
SHEET NO. **F95** OF **114** SHEETS

PM: BST
OPER: *SHA.CDK.FAI
REVISED: 06/17/99

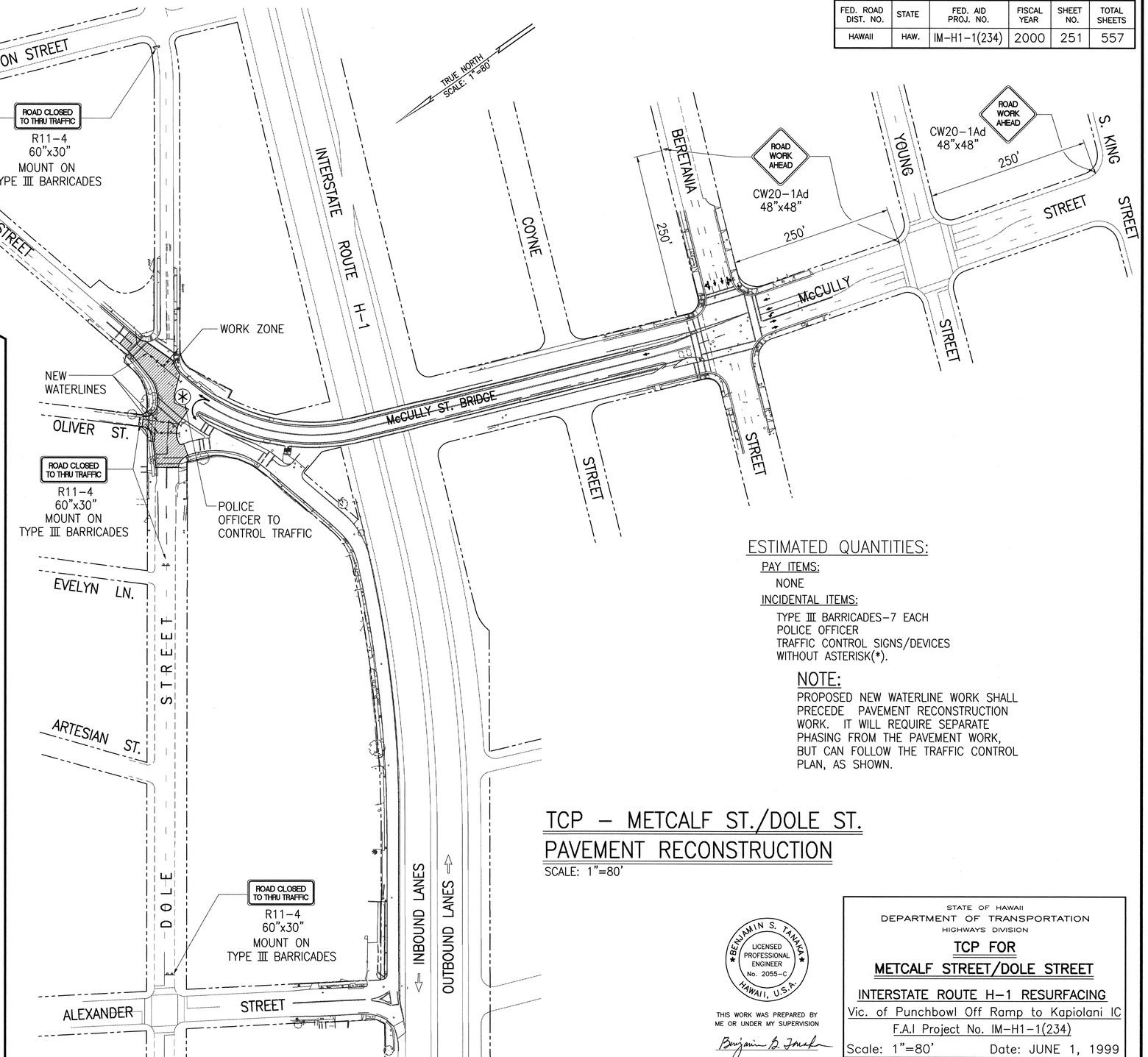
DATE: 2/11/99
SCALE: 1 = 80
FILE: 9903-07

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	251	557



TCP – METCALF ST.
PAVEMENT RECONSTRUCTION
SCALE: 1"=80'



TCP – METCALF ST./DOLE ST.
PAVEMENT RECONSTRUCTION
SCALE: 1"=80'

ESTIMATED QUANTITIES:

PAY ITEMS:

NONE

INCIDENTAL ITEMS:

TYPE III BARRICADES–7 EACH
POLICE OFFICER
TRAFFIC CONTROL SIGNS/DEVICES
WITHOUT ASTERISK(*).

NOTE:

PROPOSED NEW WATERLINE WORK SHALL PRECEDE PAVEMENT RECONSTRUCTION WORK. IT WILL REQUIRE SEPARATE PHASING FROM THE PAVEMENT WORK, BUT CAN FOLLOW THE TRAFFIC CONTROL PLAN, AS SHOWN.

PN: 98-35\TC-PHS01.DWG
DZ: 98

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

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TCP FOR

METCALF STREET/DOLE STREET

INTERSTATE ROUTE H-1 RESURFACING

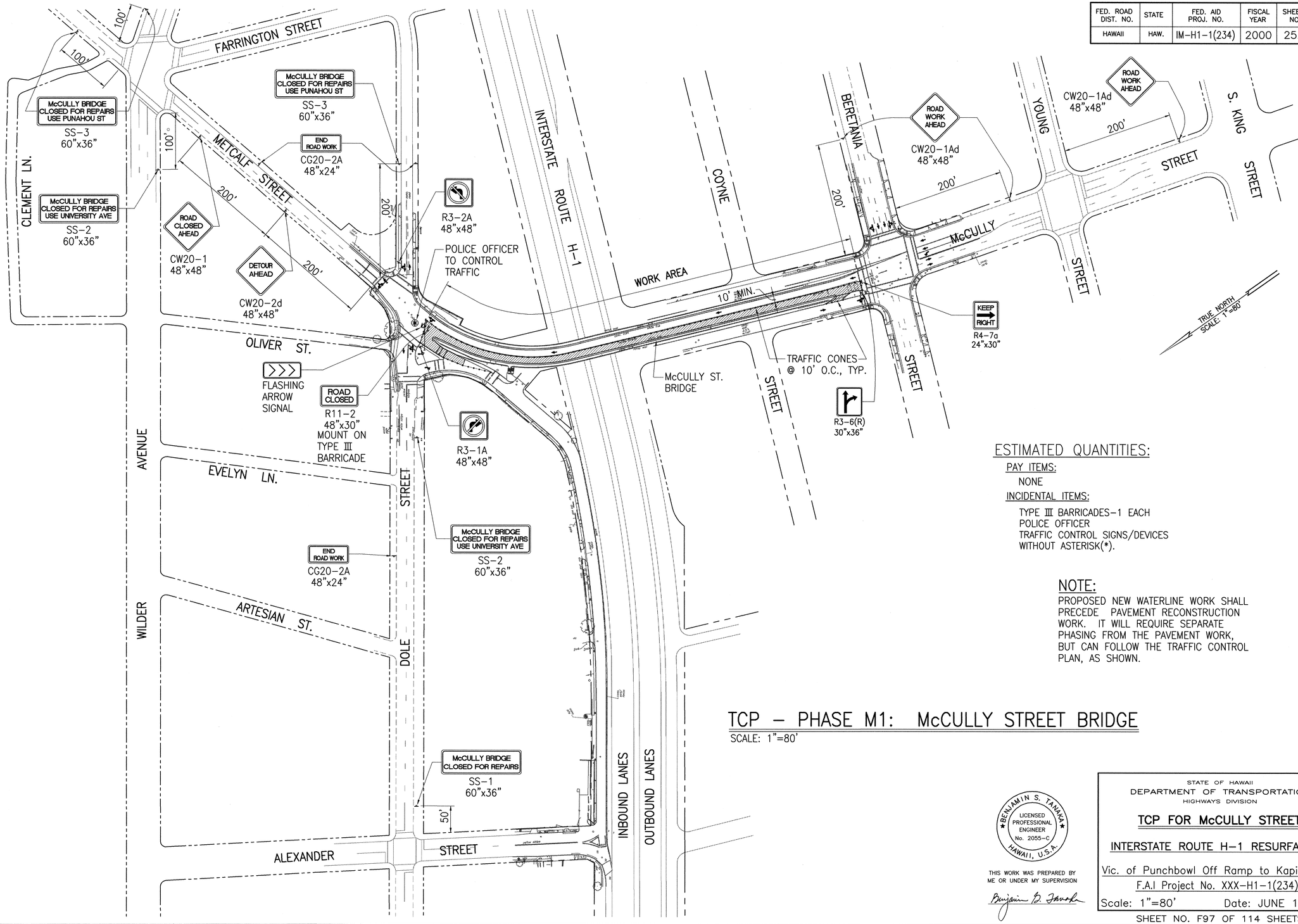
Vic. of Punchbowl Off Ramp to Kapiolani IC

F.A.I Project No. IM-H1-1(234)

Scale: 1"=80' Date: JUNE 1, 1999

SHEET NO. F96 OF 114 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	252	557



ESTIMATED QUANTITIES:

PAY ITEMS:

NONE

INCIDENTAL ITEMS:

TYPE III BARRICADES-1 EACH
POLICE OFFICER
TRAFFIC CONTROL SIGNS/DEVICES
WITHOUT ASTERISK(*).

NOTE:

PROPOSED NEW WATERLINE WORK SHALL PRECEDE PAVEMENT RECONSTRUCTION WORK. IT WILL REQUIRE SEPARATE PHASING FROM THE PAVEMENT WORK, BUT CAN FOLLOW THE TRAFFIC CONTROL PLAN, AS SHOWN.

TCP - PHASE M1: McCULLY STREET BRIDGE

SCALE: 1"=80'

P:\98-35\TCP1-M1.DWG
07/2/99

ORIGINAL PLAN	NOTEBOOK	No.

SURVEY PLOTTED BY _____ DATE
DRAWN BY _____ "
TRACED BY _____ "
DESIGNED BY _____ "
QUANTITIES BY _____ "
CHECKED BY _____ "

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TCP FOR McCULLY STREET

INTERSTATE ROUTE H-1 RESURFACING

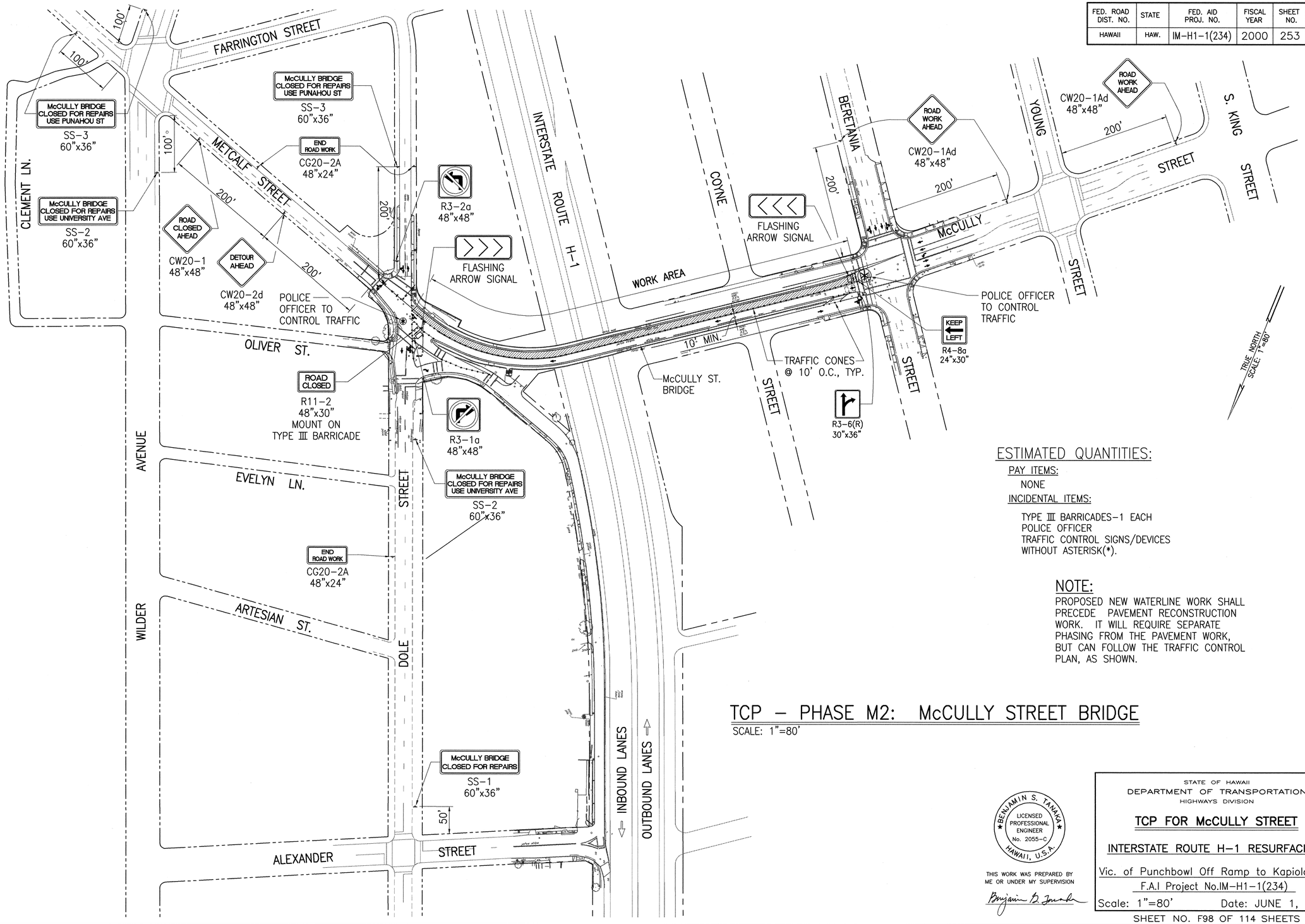
Vic. of Punchbowl Off Ramp to Kapiolani IC

F.A.I Project No. XXX-H1-1(234)

Scale: 1"=80' Date: JUNE 1, 1999

SHEET NO. F97 OF 114 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	253	557



ESTIMATED QUANTITIES:

PAY ITEMS:

NONE

INCIDENTAL ITEMS:

TYPE III BARRICADES-1 EACH
POLICE OFFICER
TRAFFIC CONTROL SIGNS/DEVICES
WITHOUT ASTERISK(*).

NOTE:

PROPOSED NEW WATERLINE WORK SHALL PRECEDE PAVEMENT RECONSTRUCTION WORK. IT WILL REQUIRE SEPARATE PHASING FROM THE PAVEMENT WORK, BUT CAN FOLLOW THE TRAFFIC CONTROL PLAN, AS SHOWN.

TCP - PHASE M2: McCULLY STREET BRIDGE

SCALE: 1"=80'

F:\98-35\TCPL-M2.DWG
072199

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

★BENJAMIN S. TANAKA★
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

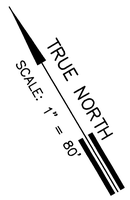
TCP FOR McCULLY STREET

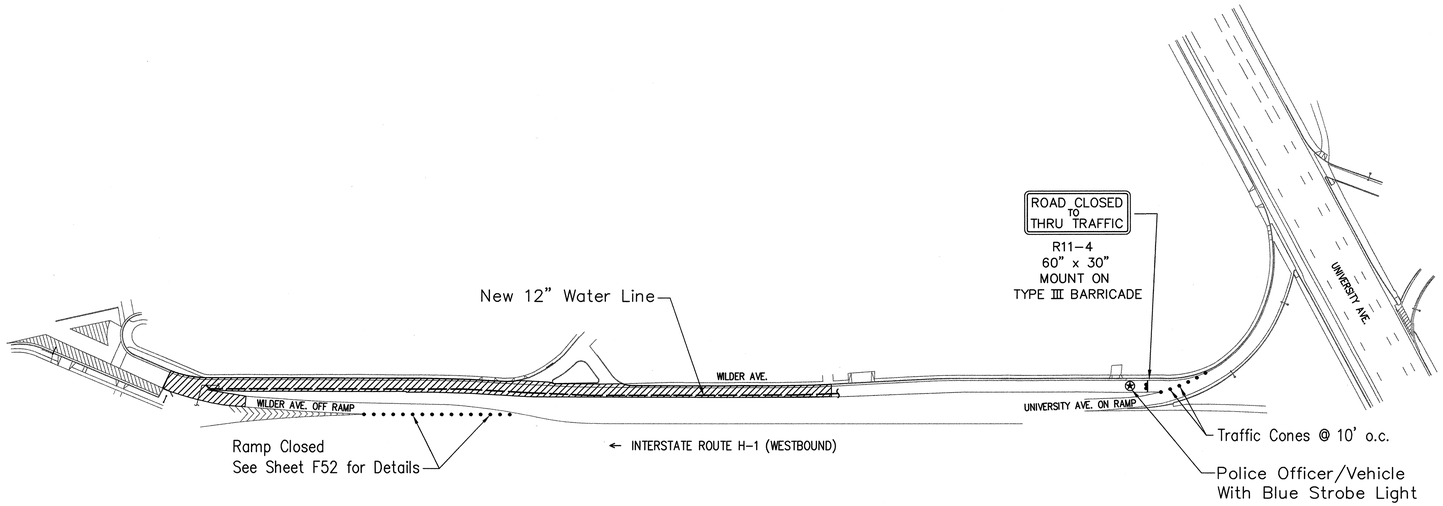
INTERSTATE ROUTE H-1 RESURFACING

Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No.IM-H1-1(234)
Scale: 1"=80' Date: JUNE 1, 1999

SHEET NO. F98 OF 114 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	254	557

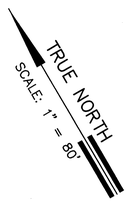


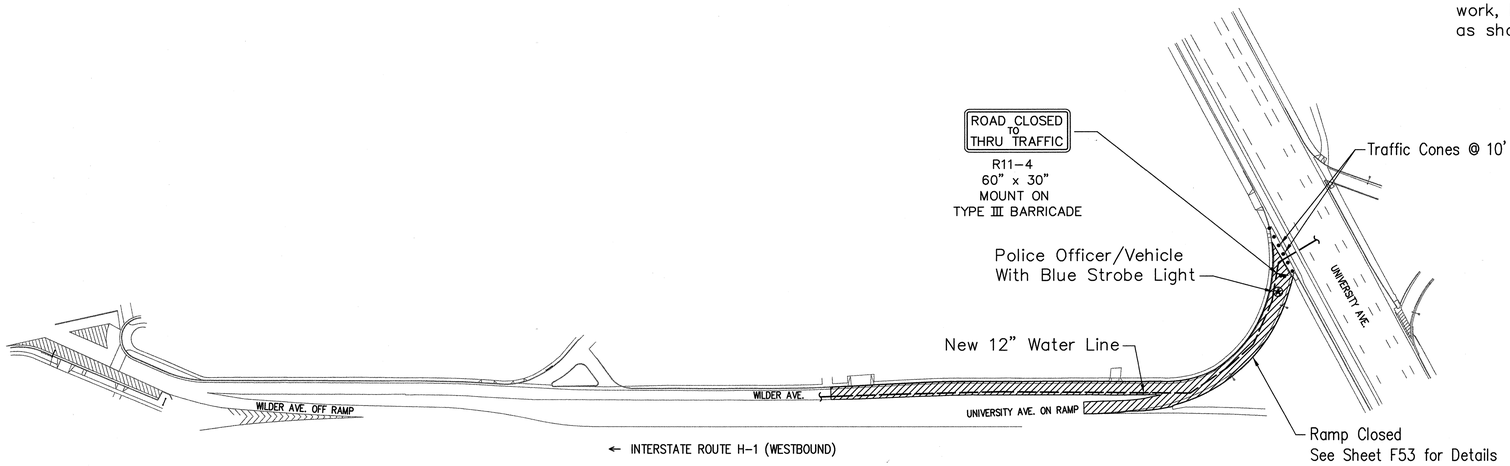


Estimated Quantities:
Pay Items:
None
Incidental Items:
Traffic Control Signs/Devices
Without Asterisk (*)
Type III Barricade – 1 Each
Police Officers

PHASE W2 CONSTRUCTION (SUNDAY WORK)

NOTE:
Proposed new waterline work shall precede pavement reconstruction work. It will require separate phasing from the pavement work, but can follow the traffic control plan, as shown.





Estimated Quantities:
Pay Items:
None
Incidental Items:
Traffic Control Signs/Devices
Without Asterisk (*)
Type III Barricade – 1 Each
Police Officers

PHASE W1 CONSTRUCTION (SUNDAY WORK)

PM: BST
OPER: SHA,CDK,FAI,*BTY
REVISED: 07/19/99
DATE: 2/12/99
SCALE: 1 = 80
FILE: 9815-179

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

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

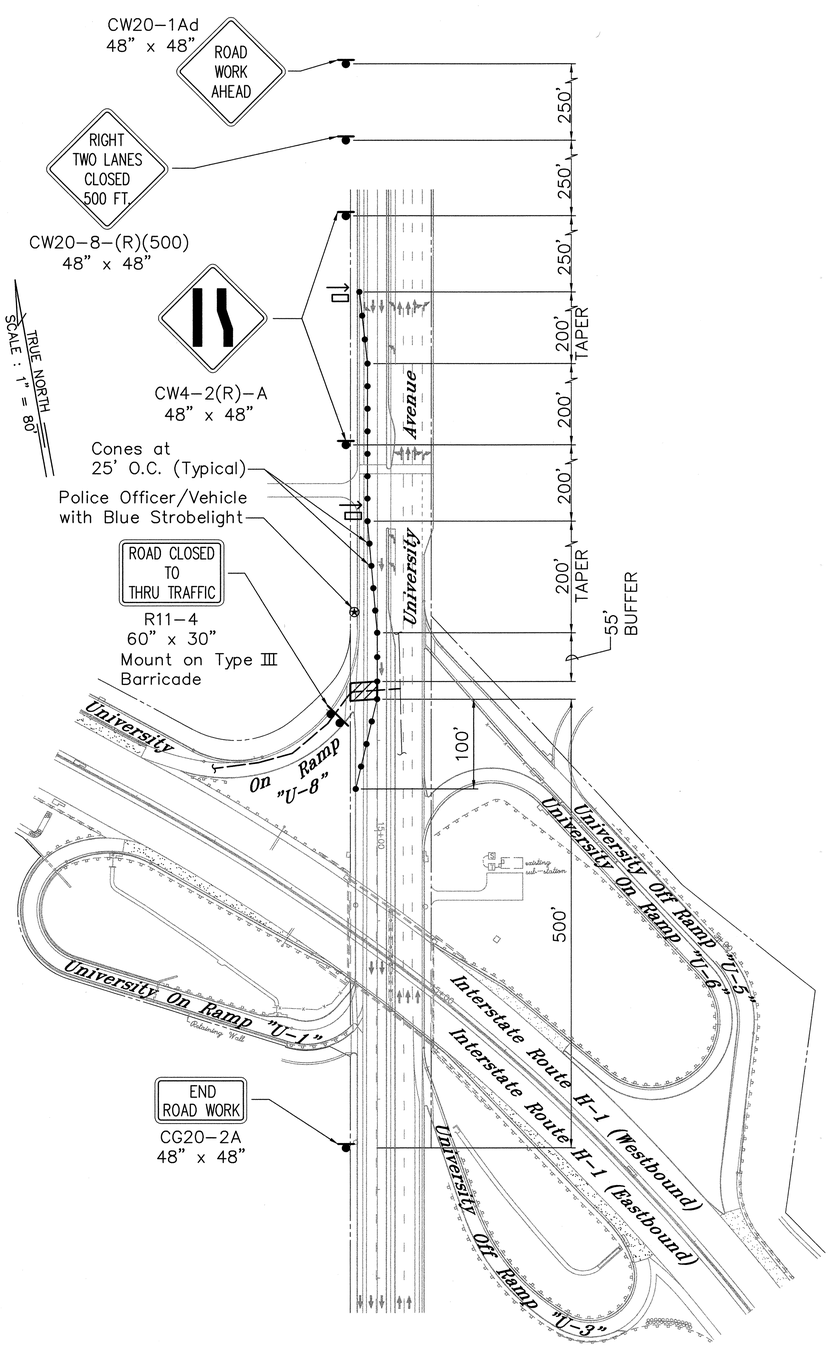
TCP FOR WILDER AVENUE

INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

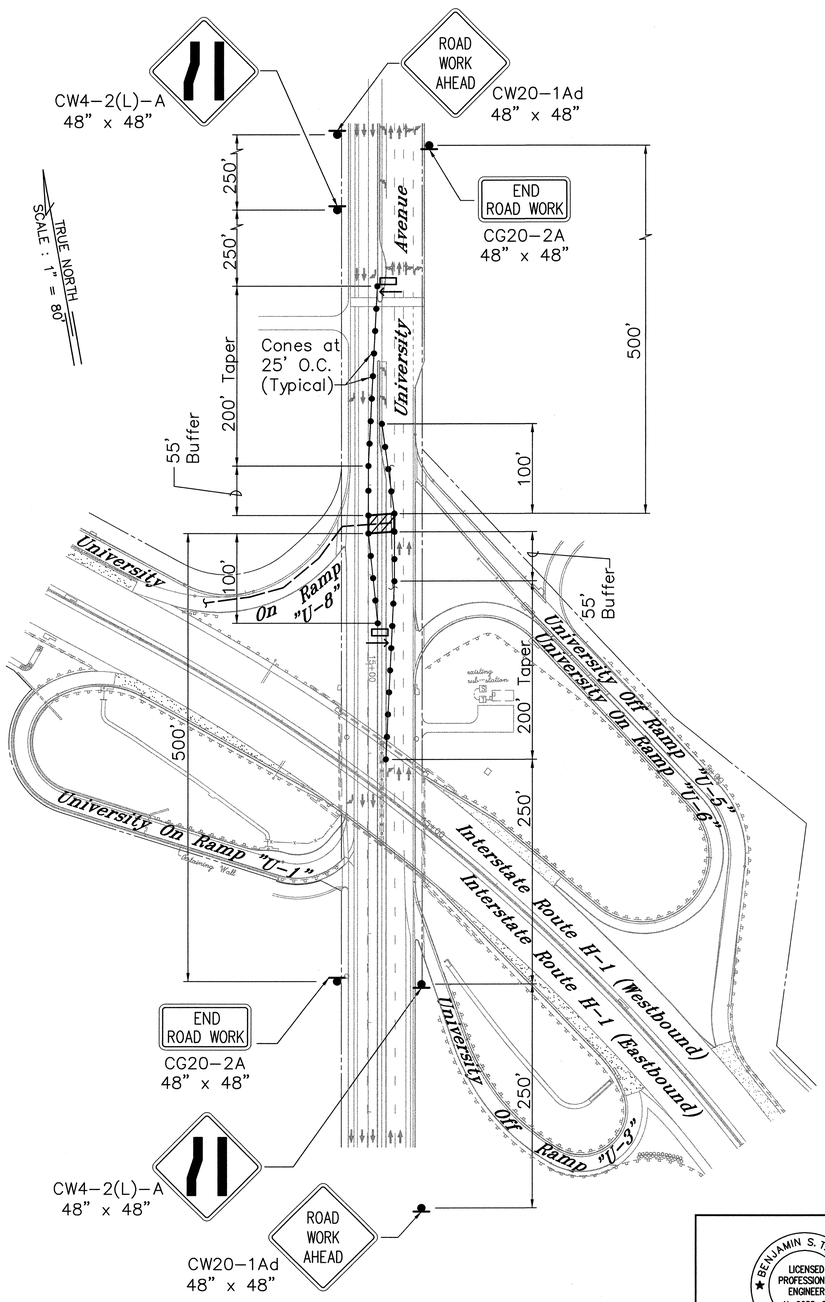
Scale: 1" = 80' Date: June 1, 1999

SHEET NO. F99 OF 114 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	255	557



PHASE W1A CONSTRUCTION (SUNDAY WORK)



PHASE W1B CONSTRUCTION (SUNDAY WORK)

NOTE:

Proposed new waterline work shall precede pavement reconstruction work. It will require separate phasing from the pavement work, but can follow the traffic control plan, as shown.

Estimated Quantities:

Pay Items:

None

Incidental Items:

Traffic Control Signs/Devices Without Asterisk (*)
Type III Barricades
Police Officer

DATE: 2/12/99
SCALE: 1 = 80
FILE: 9903-08

PM: BST
OPER: *SHA.CDK.FAI
REVISED: 07/15/99

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

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TCP FOR WILDER AVENUE

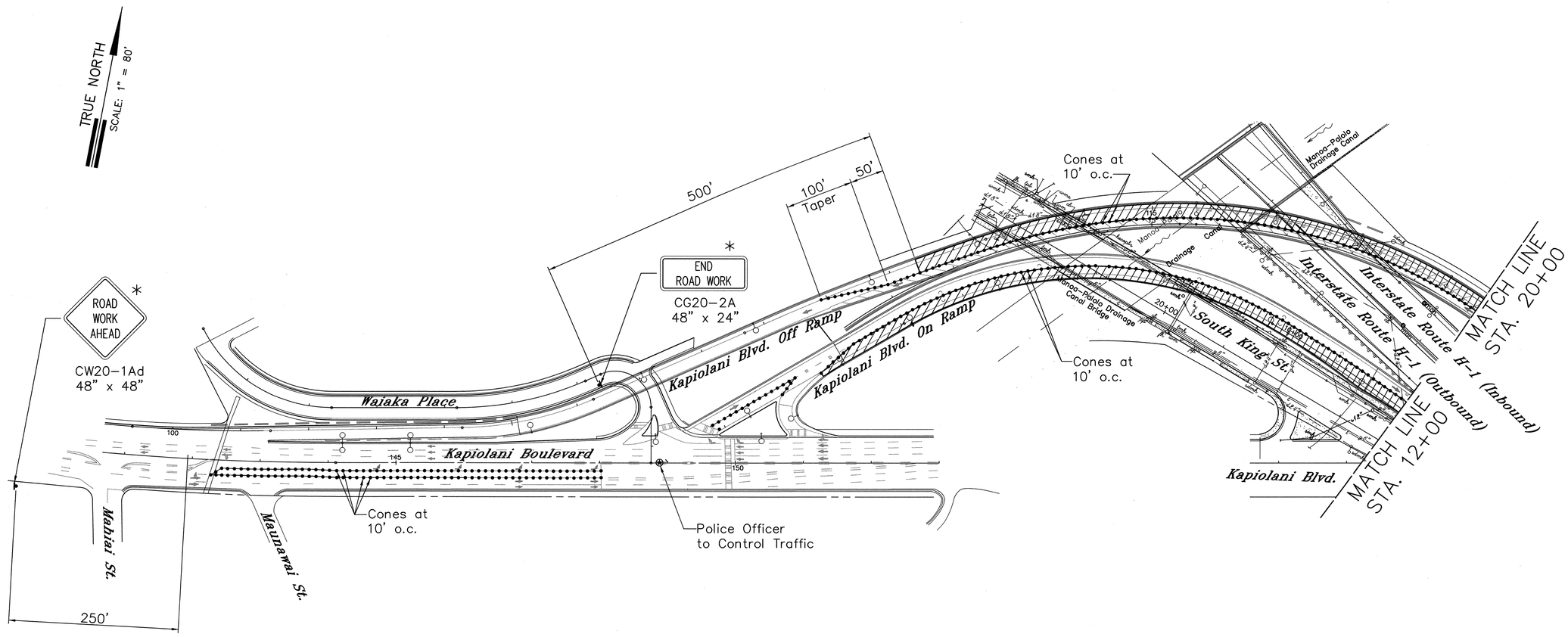
INTERSTATE ROUTE H-1 RESURFACING

Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

Scale: 1" = 80' Date: June 1, 1999

SHEET NO. **F100** OF **114** SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	256	557



PHASE A

Estimated Quantities:

Pay Items:

Construction Sign with 2 Posts Marked with Asterisk(*) – 2 each

Incidental Items:

Traffic Control Signs/Devices Without Asterisk (*)

Police Officer

* Construction Signs with 2 Posts Marked with Asterisk(*) to be Installed at the Start of Phase A and to be Removed at the End of Phase C. To be Paid Under Item 621.7210, Construction Warning Sign with 2 Posts – Frontage Roads. All other Traffic Control Signs/Devices Without Asterisk(*) are Incidental.

BENJAMIN S. TANAKA ★ LICENSED PROFESSIONAL ENGINEER No.2055-C ★ HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TCP FOR KAPIOLANI ON AND OFF RAMPS

INTERSTATE ROUTE H-1 RESURFACING

Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

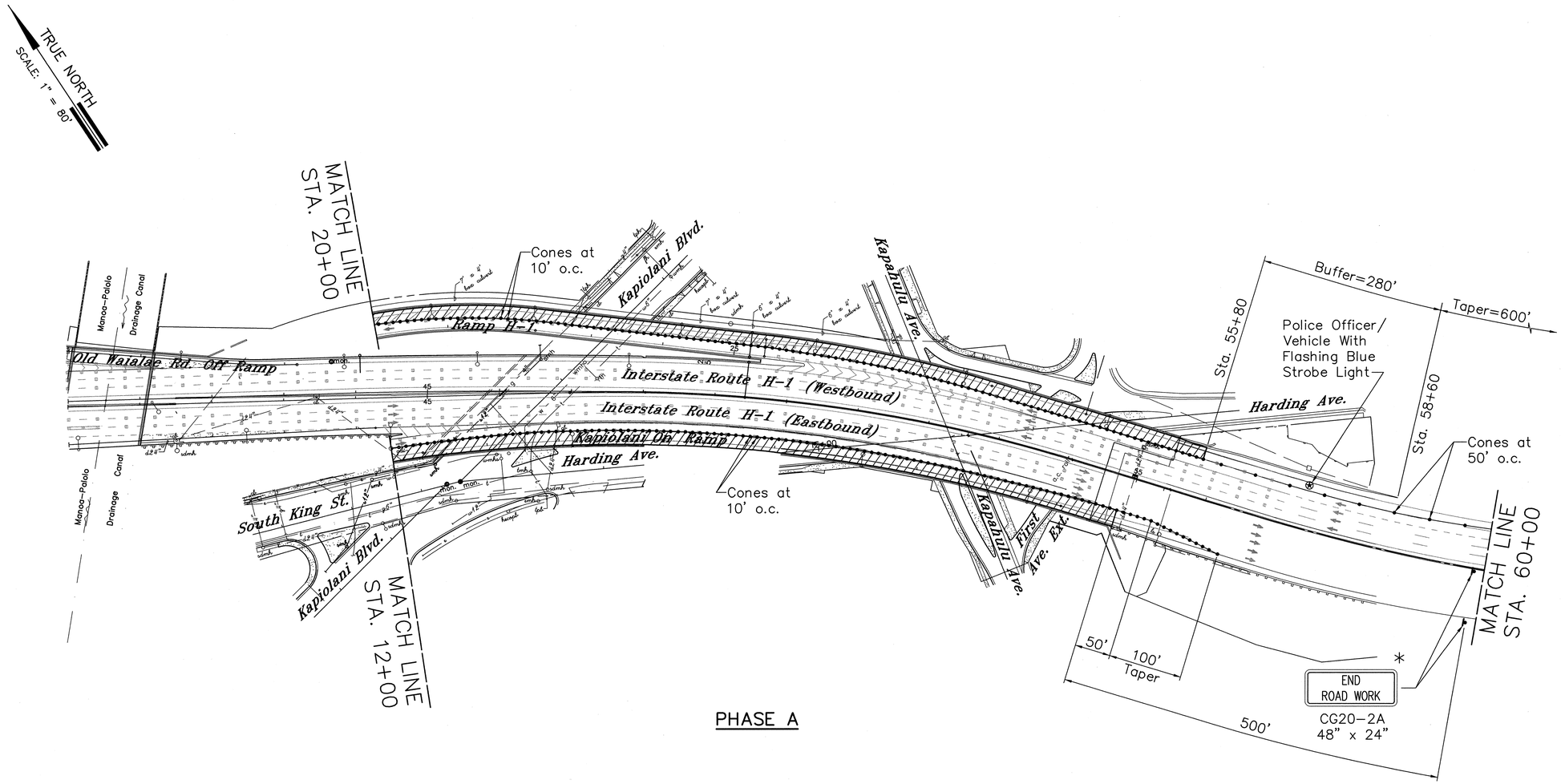
Scale: 1"=80' Date: June 1, 1999

SHEET NO. F101 OF 114 SHEETS

PM: BST
OPER: *SHA,FAI
REVISED: 07/15/99
DATE: 10/27/98
SCALE: 1 = 80
FILE: 9815-161

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	257	557



PHASE A

Estimated Quantities:

Pay Items:

Construction Sign with 2 Posts Marked with Asterisk(*) – 2 each

Incidental Items:

Traffic Control Signs/Devices Without Asterisk (*)

Police Officer

* Construction Signs with 2 Posts Marked with Asterisk(*) to be Installed at the Start of Phase A and to be Removed at the End of Phase C. To be Paid Under Item 621.7200, Construction Warning Sign with 2 Posts – H-1 Freeway. All other Traffic Control Signs/Devices Without Asterisk(*) are Incidental.

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TCP FOR KAPIOLANI ON AND OFF RAMPS

INTERSTATE ROUTE H-1 RESURFACING

Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

Scale: 1"=80' Date: June 1, 1999

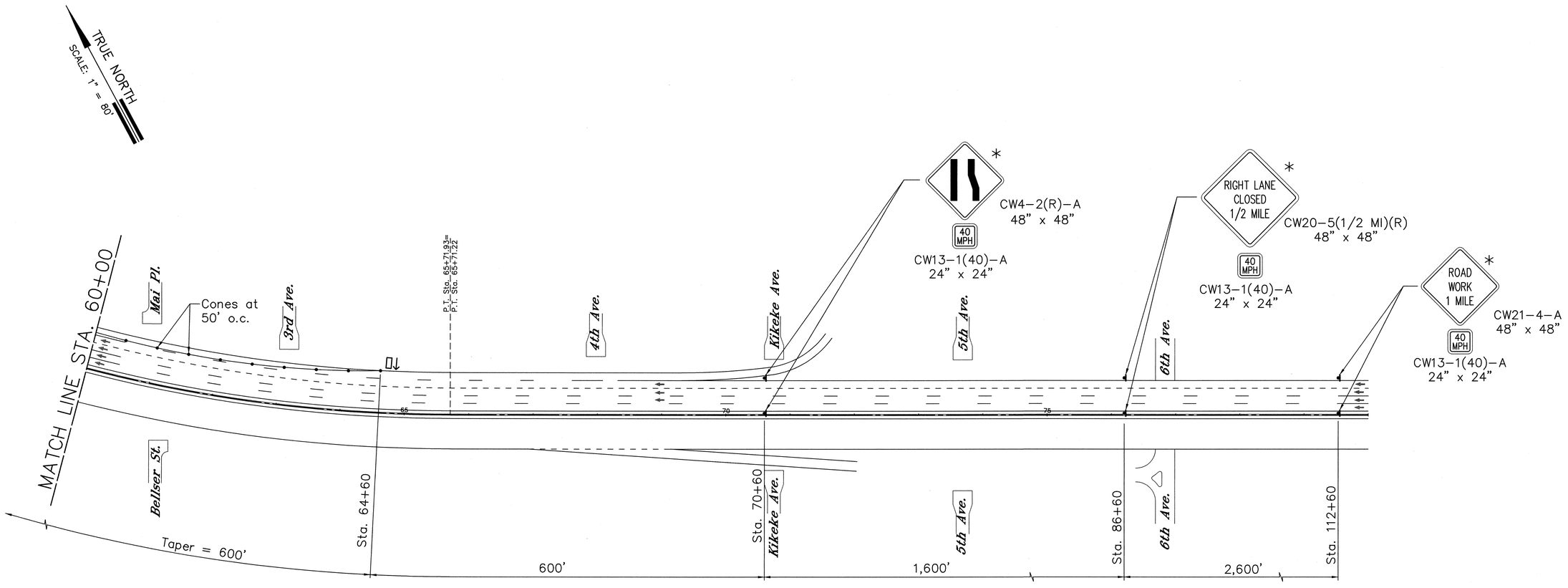
SHEET NO. F102 OF 114 SHEETS

PM: BST
OPER: *SHA.FAI
REVISED: 07/15/99

DATE: 10/27/98
SCALE: 1 = 80
FILE: 9815-162

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	258	557



PHASE A

Estimated Quantities:

Pay Items:

Construction Sign with 2 Posts Marked with Asterisk(*) – 6 each

Incidental Items:

Traffic Control Signs/Devices Without Asterisk (*)

* Construction Signs with 2 Posts Marked with Asterisk(*) to be Installed at the Start of Phase A and to be Removed at the End of Phase C. To be Paid Under Item 621.7200, Construction Warning Sign with 2 Posts – hH-1 Freeway. All other Traffic Control Signs/Devices Without Asterisk(*) are Incidental.

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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Benjamin S. Tanaka

STATE OF HAWAII
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HIGHWAYS DIVISION

TCP FOR KAPIOLANI ON AND OFF RAMPS

INTERSTATE ROUTE H-1 RESURFACING

Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

Scale: 1"=80' Date: June 1, 1999

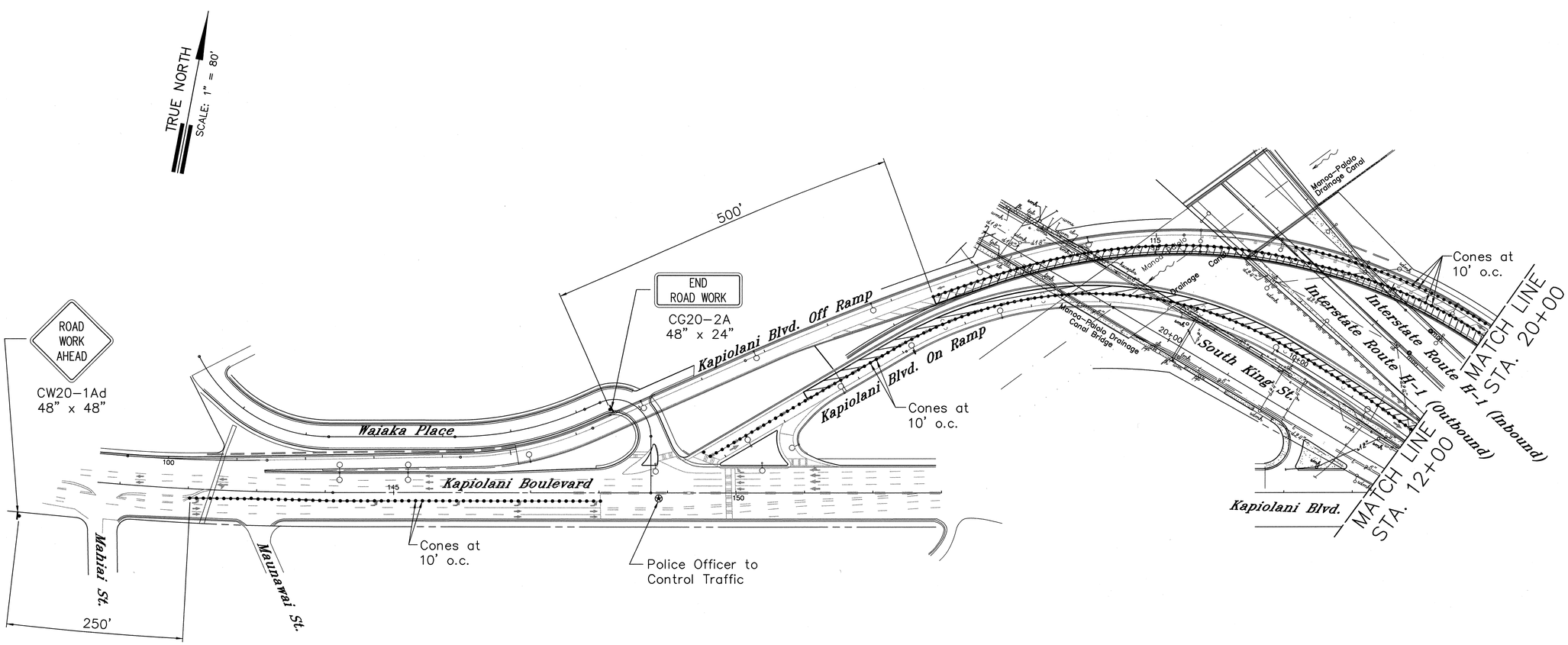
SHEET NO. F103 OF 114 SHEETS

DATE: 11/05/98
SCALE: 1 = 80
FILE: 9518-163

PM: BST
OPER: *SHA.FAI
REVISED: 07/15/99

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	259	557



PHASE B

Estimated Quantities:

Pay Items:

None

Incidental Items:

Traffic Control Signs/Devices Without Asterisk (*)

Police Officer

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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Benjamin S. Tanaka

STATE OF HAWAII
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HIGHWAYS DIVISION

TCP FOR KAPIOLANI ON AND OFF RAMPS

INTERSTATE ROUTE H-1 RESURFACING

Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

Scale: 1"=80' Date: June 1, 1999

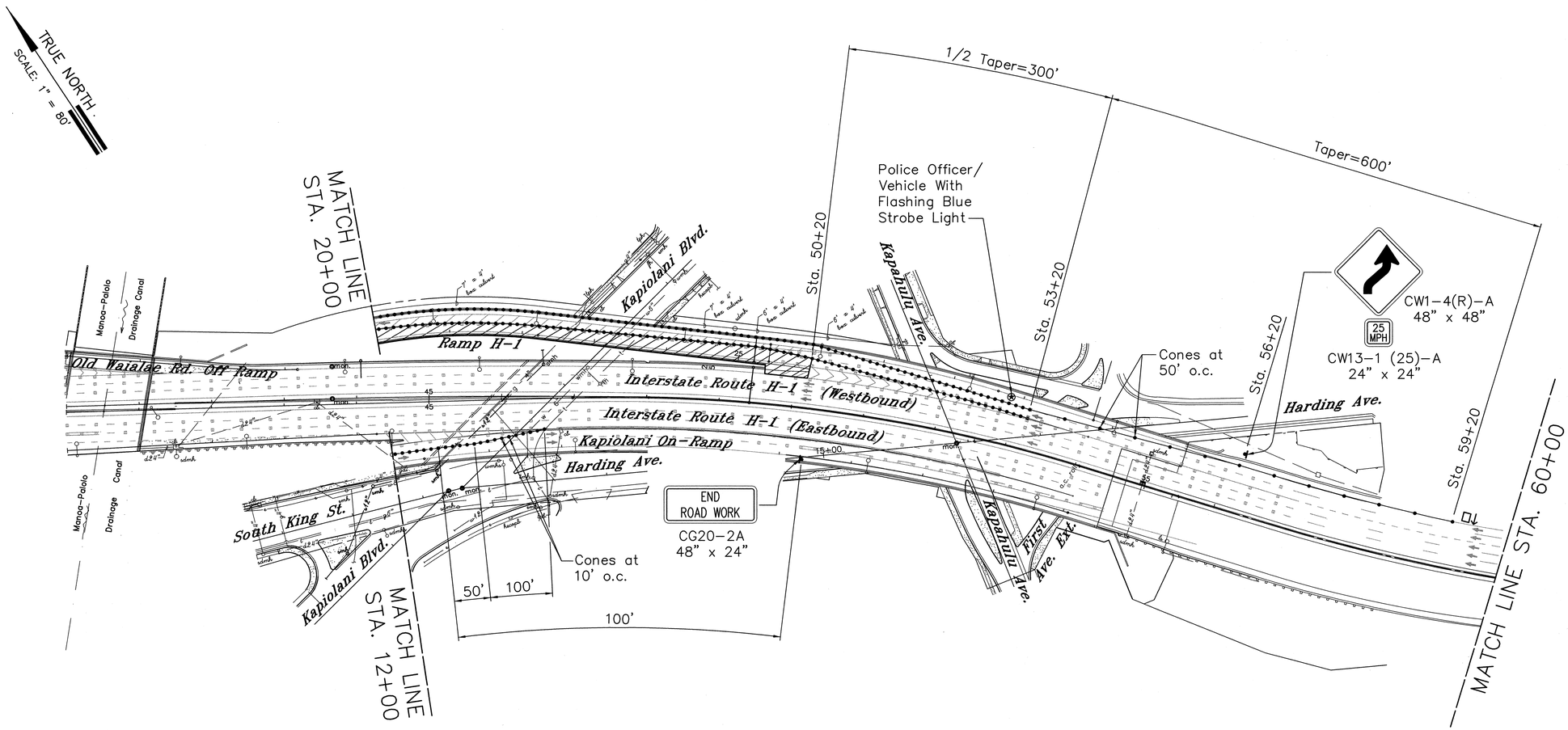
SHEET NO. **F104** OF **114** SHEETS

DATE: 11/05/98
SCALE: 1 = 80
FILE: 9815-164

PM: BST
OPER: *SHA.FAI
REVISED: 07/15/99

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	260	557



PHASE B

Estimated Quantities:

Pay Items:

None

Incidental Items:

Traffic Control Signs/Devices Without Asterisk (*)

Police Officer

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TCP FOR KAPIOLANI ON AND OFF RAMPS

INTERSTATE ROUTE H-1 RESURFACING

Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

Scale: 1"=80' Date: June 1, 1999

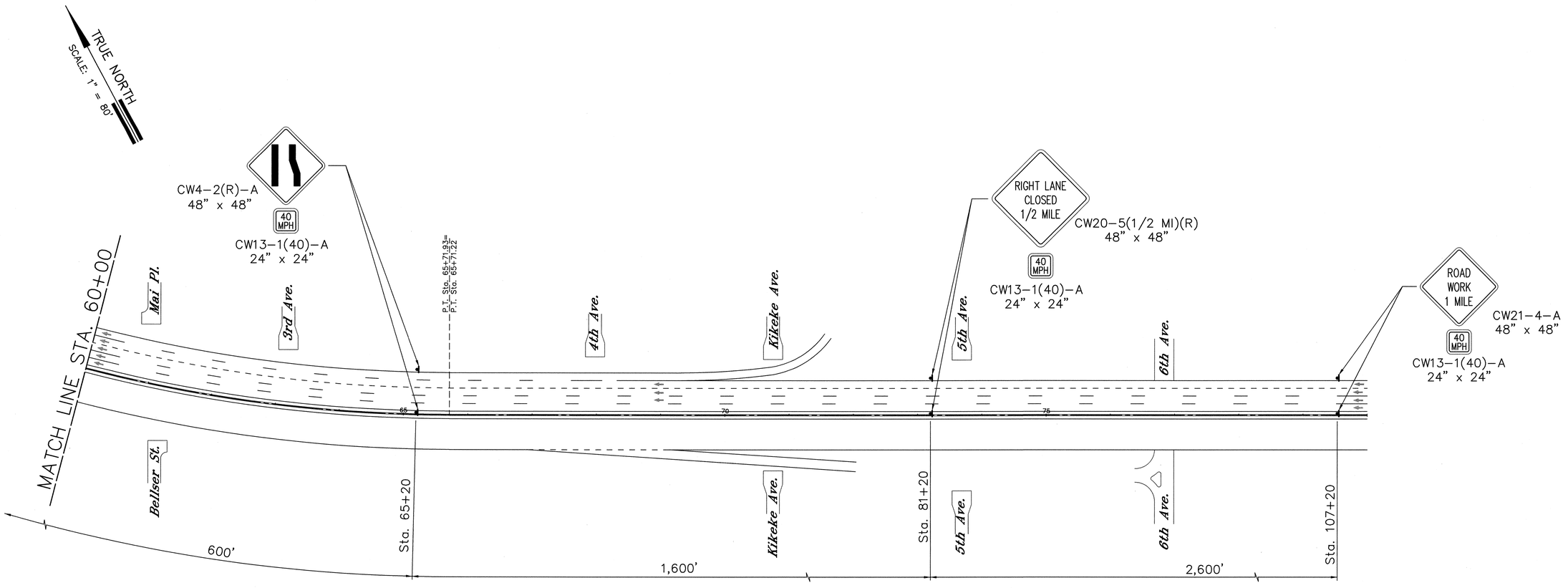
SHEET NO. **F105** OF **114** SHEETS

PM: BST
OPER: *SHA.FAI
REVISED: 07/15/99

DATE: 11/06/98
SCALE: 1 = 80
FILE: 9815-165

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	261	557



PHASE B

DATE: 11/05/98
SCALE: 1 = 80
FILE: 9518-166

PM: BST
OPER: *SHA,FAI
REVISED: 07/15/99

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

Estimated Quantities:

Pay Items:

None

Incidental Items:

Traffic Control Signs/Devices Without Asterisk (*)

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TCP FOR KAPIOLANI ON AND OFF RAMPS

INTERSTATE ROUTE H-1 RESURFACING

Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

Scale: 1"=80' Date: June 1, 1999

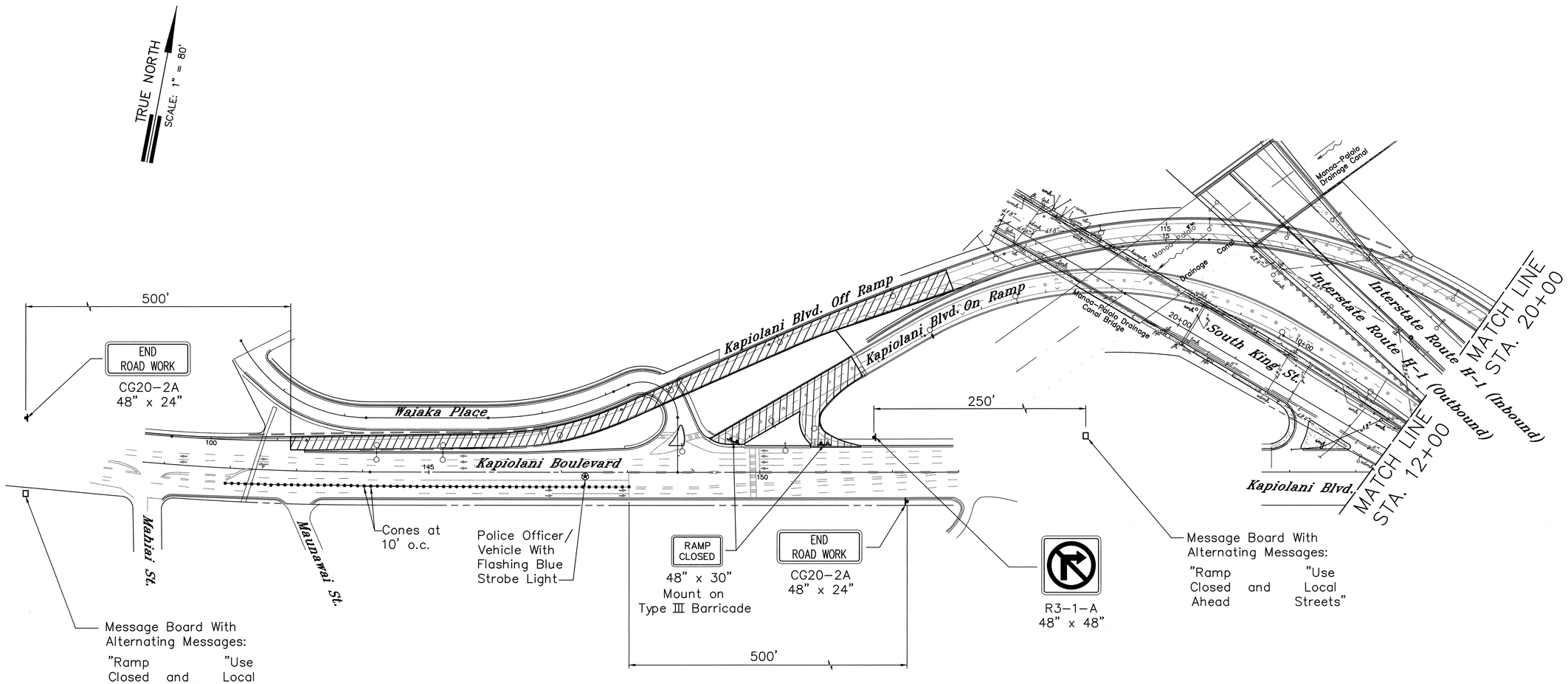
SHEET NO. **F106** OF **114** SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	262	557

PM: BST
OPER: *SHA.FAI
REVISED: 07/15/99

DATE: 11/06/98
SCALE: 1 = 80
FILE: 9815-167

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



PHASE C

Estimated Quantities:

Pay Items:

None

Incidental Items:

Traffic Control Signs/Devices Without Asterisk (*)
Type III Barricades – 2 Each
Police Officer

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

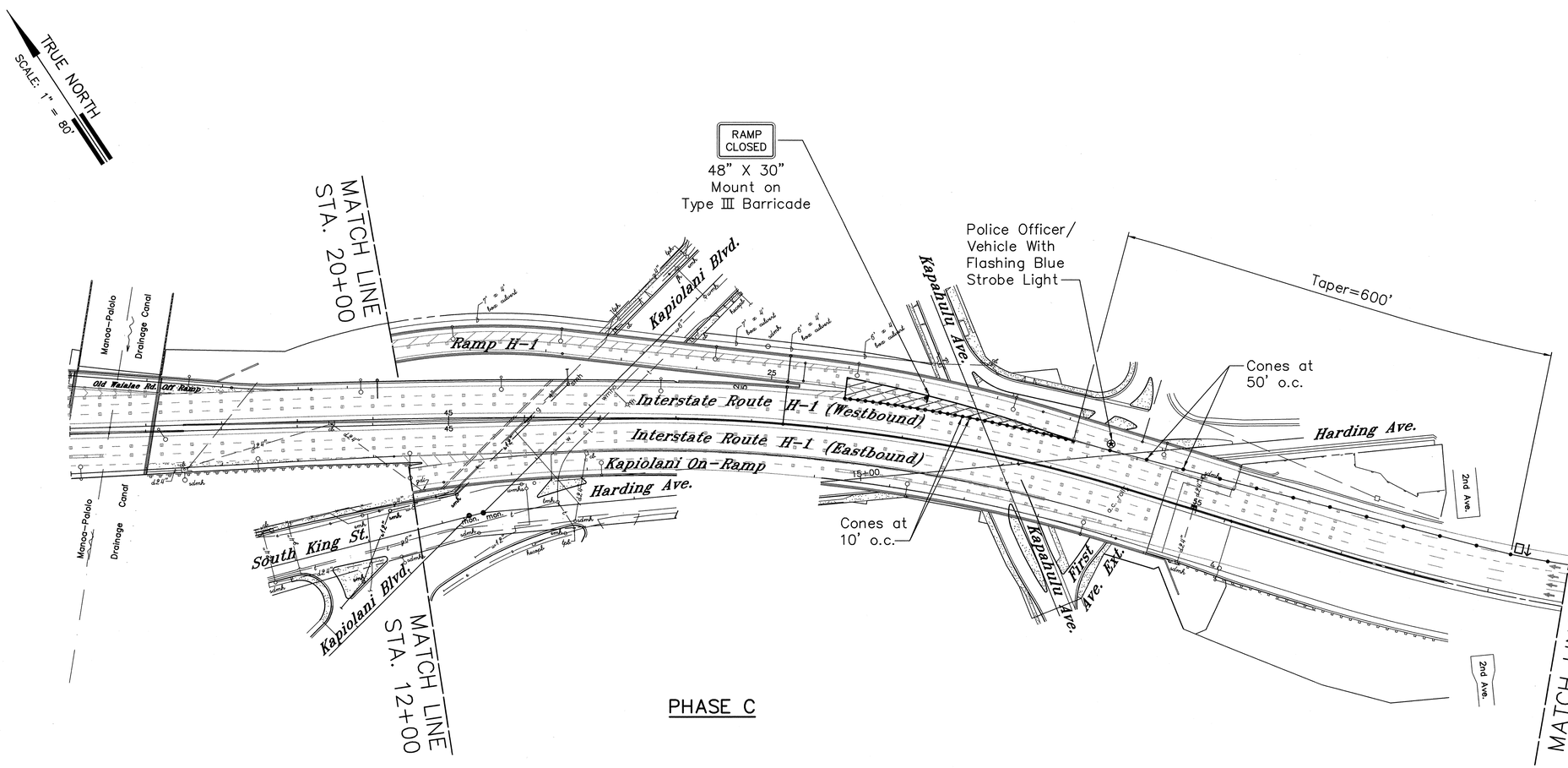
TCP FOR KAPIOLANI ON AND OFF RAMPS

INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

Scale: 1"=80' Date: June 1, 1999

SHEET NO. F107 OF 114 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	263	557



PHASE C

Estimated Quantities:

Pay Items:

None

Incidental Items:

Traffic Control Signs/Devices Without Asterisk (*)
Type III Barricade – 1 Each
Police Officer

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TCP FOR KAPIOLANI ON AND OFF RAMPS

INTERSTATE ROUTE H-1 RESURFACING

Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

Scale: 1"=80' Date: June 1, 1999

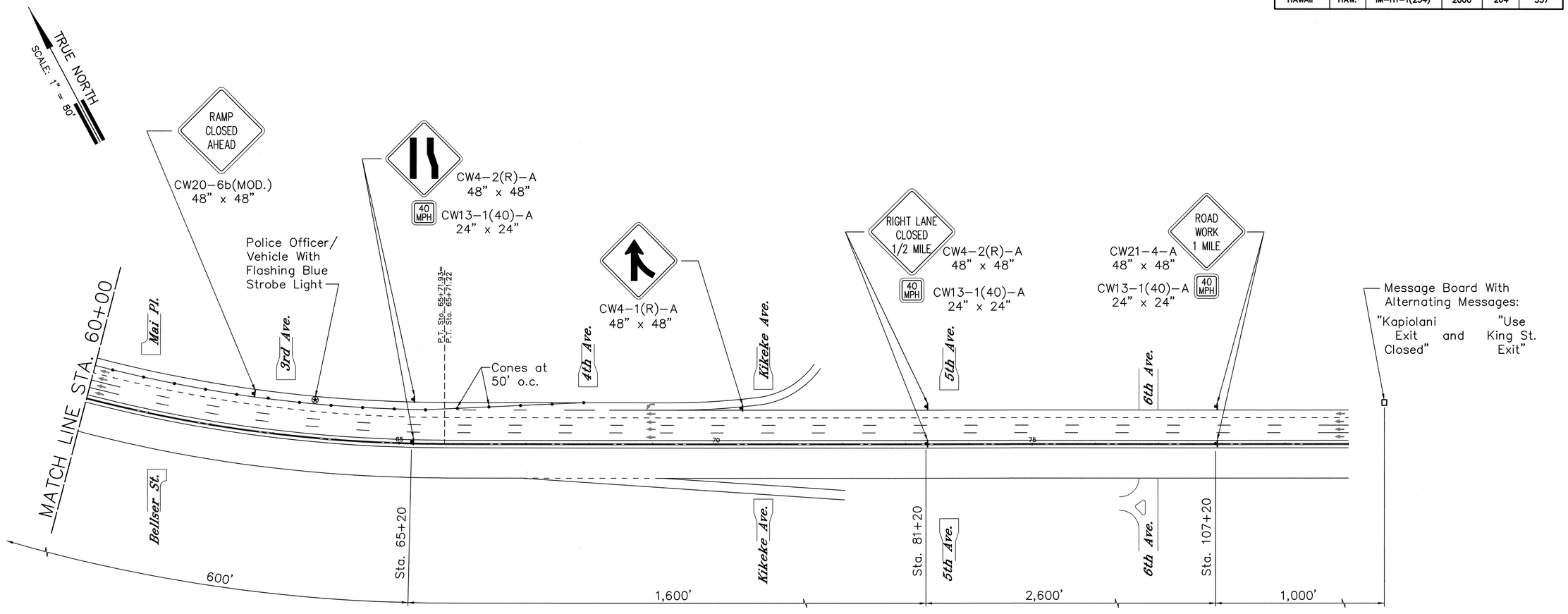
SHEET NO. F108 OF 114 SHEETS

DATE: 10/27/98
SCALE: 1 = 80
FILE: 9815-168

PM: BST
OPER: *SHA.FAI
REVISED: 07/15/99

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	264	557



PHASE C

PM: BST
OPER: *SHA,MFAI
REVISED: 07/15/99

DATE: 11/05/98
SCALE: 1 = 80
FILE: 9518-169

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

Estimated Quantities:

Pay Items:

None

Incidental Items:

Traffic Control Signs/Devices Without Asterisk (*)

Police Officer

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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STATE OF HAWAII
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HIGHWAYS DIVISION

TCP FOR KAPIOLANI ON AND OFF RAMPS

INTERSTATE ROUTE H-1 RESURFACING

Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

Scale: 1"=80' Date: June 1, 1999

SHEET NO. **F109** OF **114** SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	265	557

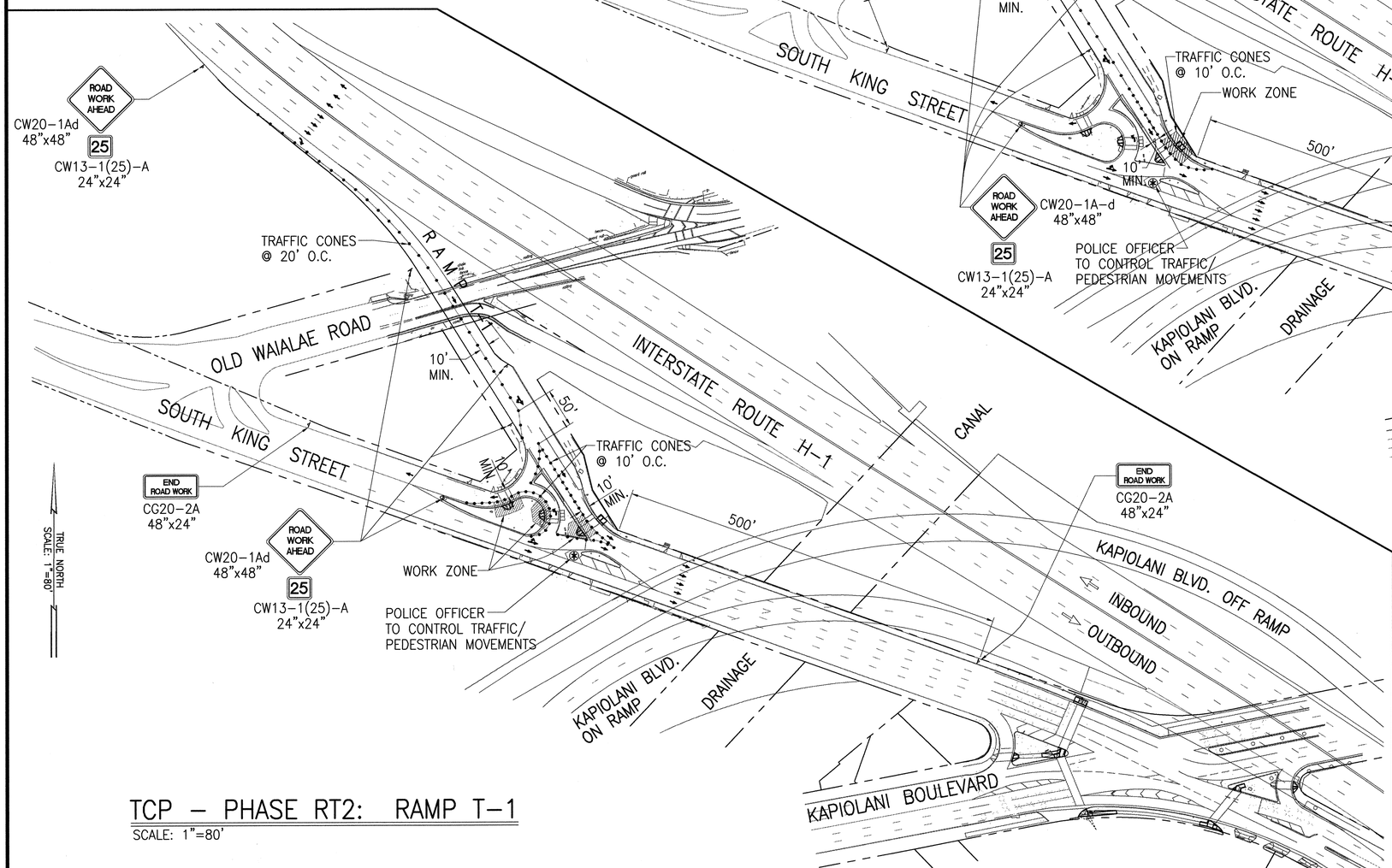
ESTIMATED QUANTITIES:

PAY ITEMS:

NONE

INCIDENTAL ITEMS:

POLICE OFFICER
TRAFFIC CONTROL SIGNS/DEVICES WITHOUT ASTERISK(*).



TCP – PHASE RT2: RAMP T-1

SCALE: 1"=80'

TCP – PHASE RT1: RAMP T-1

SCALE: 1"=80'

FN: 98-35\TCPL-RT.DWG
07/2199

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

BENJAMIN S. TANAKA
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HAWAII, U.S.A.

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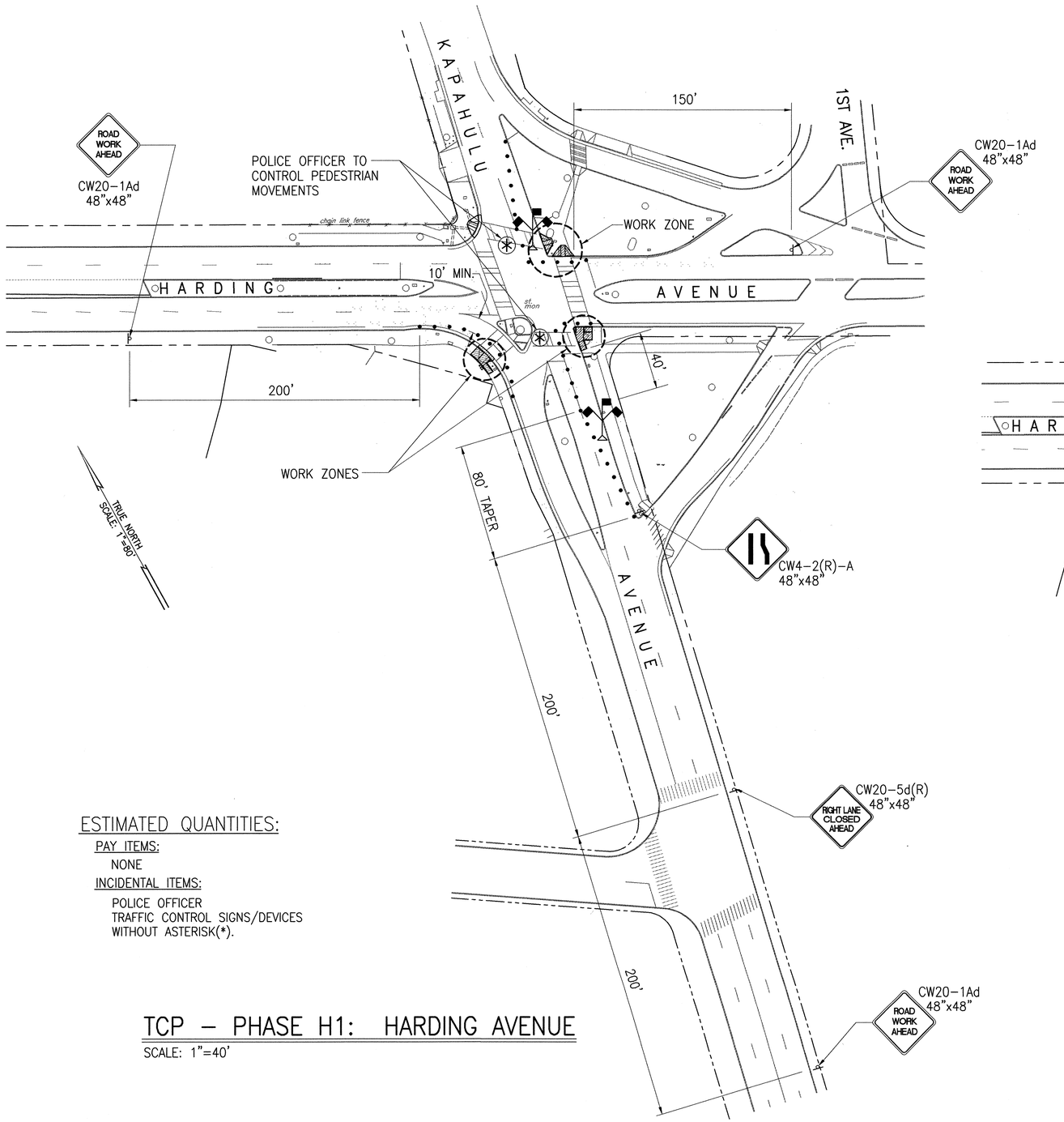
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

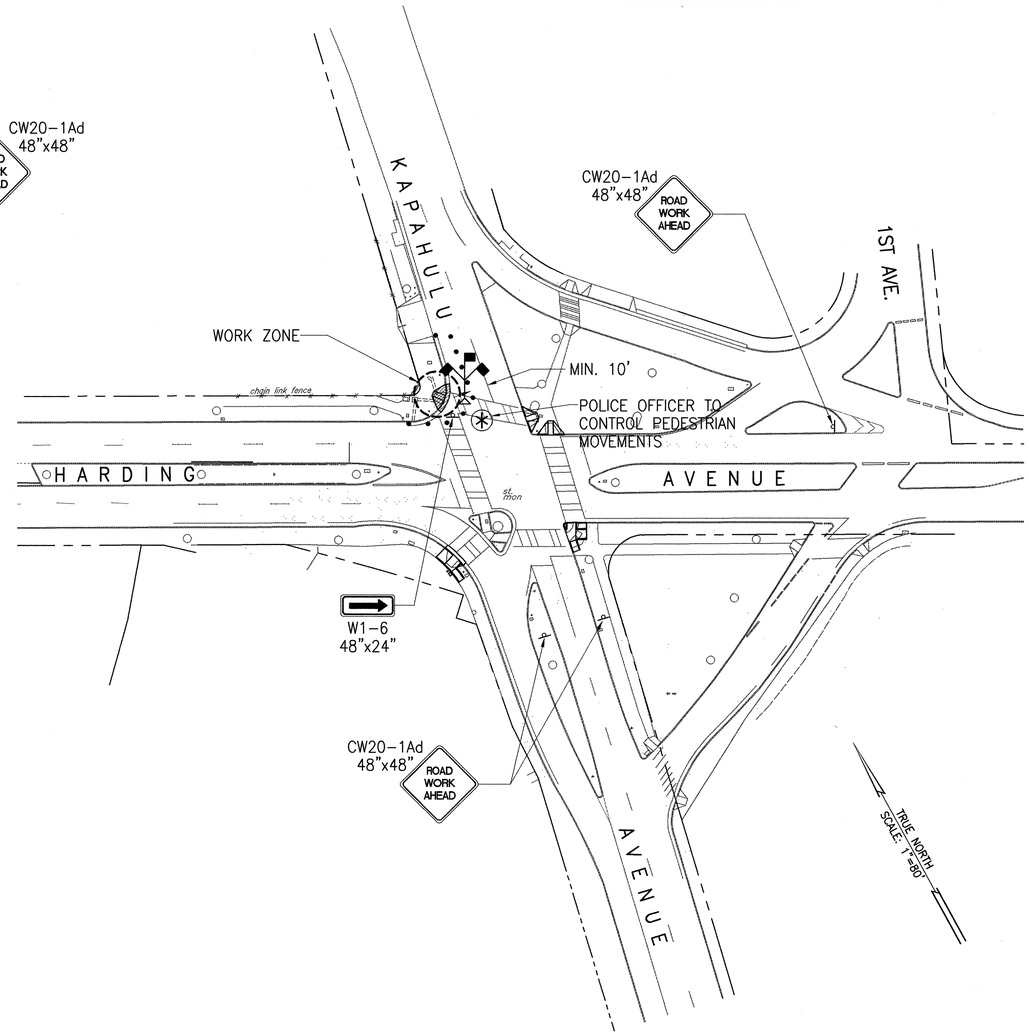
TCP FOR ADA IMPROVEMENTS ON VARIOUS STREETS

INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)
Scale: 1"=80' Date: JUNE 1, 1999

SHEET NO. F110 OF 114 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	266	557





ESTIMATED QUANTITIES:

PAY ITEMS:

NONE

INCIDENTAL ITEMS:

POLICE OFFICER
TRAFFIC CONTROL SIGNS/DEVICES WITHOUT ASTERISK(*).

TCP – PHASE H1: HARDING AVENUE

SCALE: 1"=40'

TCP – PHASE H2: HARDING AVENUE

SCALE: 1"=40'

D:\98-35\TCPLH1H2.DWG
07/2/99

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

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LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

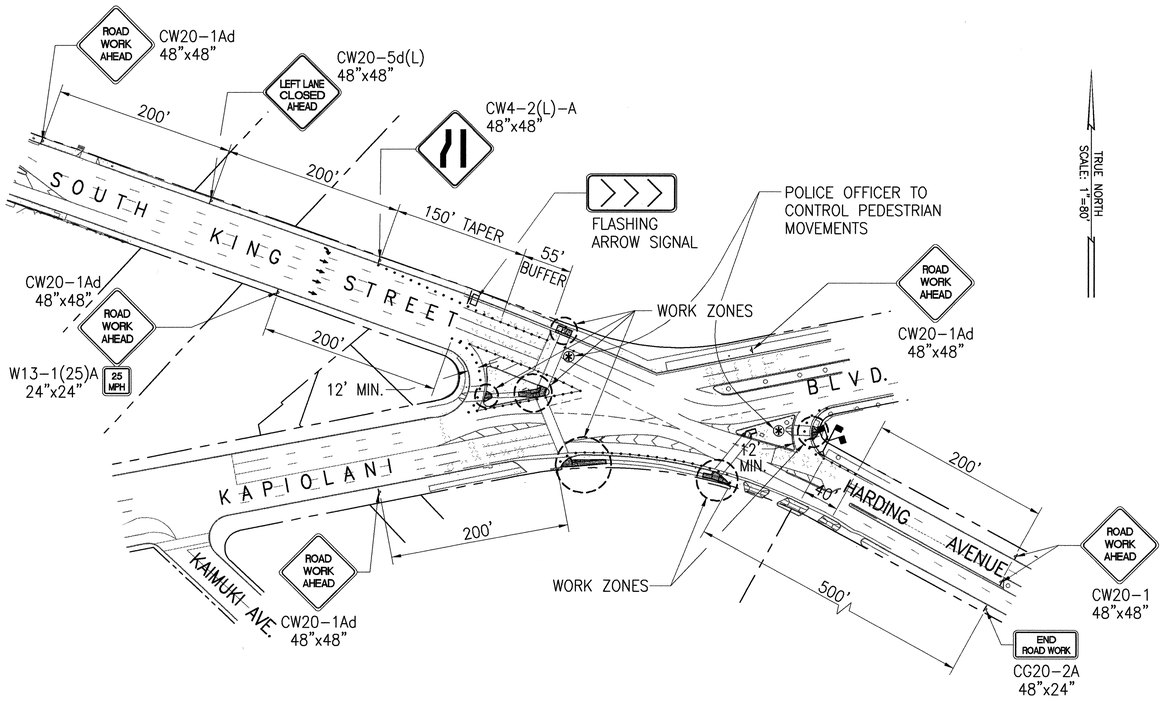
TCP FOR ADA IMPROVEMENTS ON VARIOUS STREETS

INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

Scale: 1"=80' Date: JUNE 1, 1999

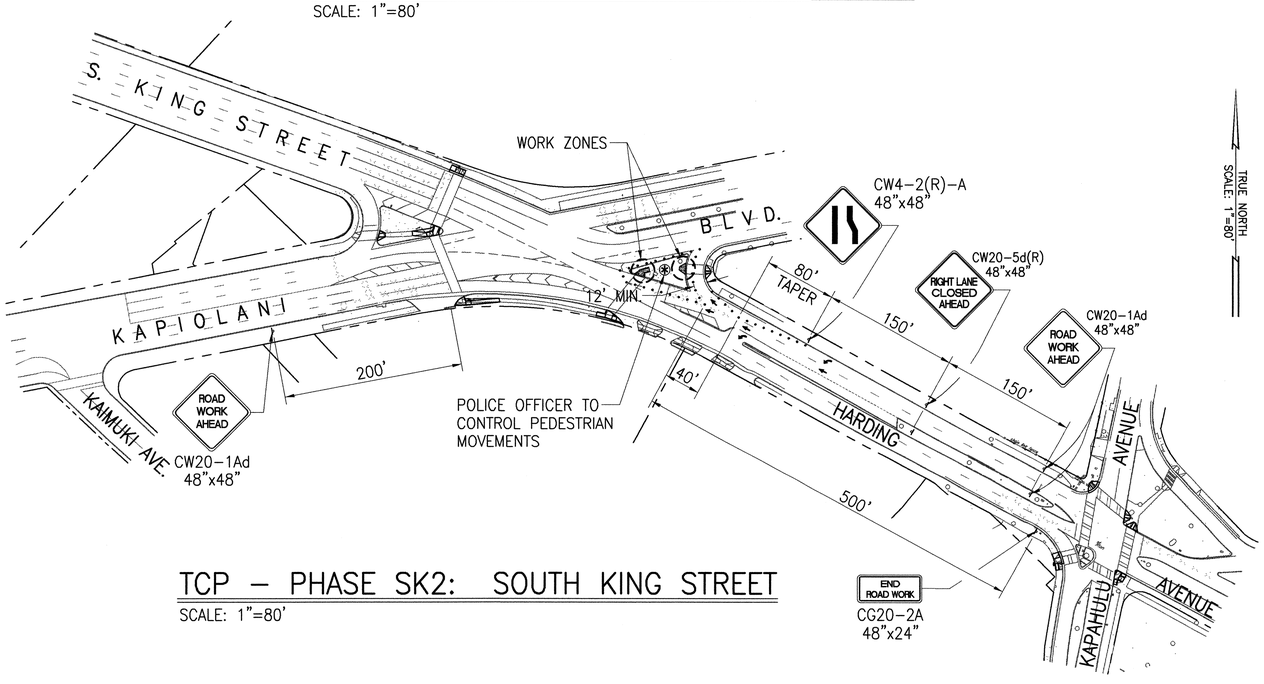
SHEET NO. F111 OF 114 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	267	557



TCP – PHASE SK1: SOUTH KING STREET

SCALE: 1"=80'



TCP – PHASE SK2: SOUTH KING STREET

SCALE: 1"=80'

ESTIMATED QUANTITIES:

PAY ITEMS:

NONE

INCIDENTAL ITEMS:

POLICE OFFICER
TRAFFIC CONTROL SIGNS/DEVICES
WITHOUT ASTERISK(*).

F:\hs-35\TCPL-SK.DWG
07/21/99

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

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TCP FOR ADA
IMPROVEMENTS ON VARIOUS STREETS
INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)
Scale: 1"=80' Date: JUNE 1, 1999

SHEET NO. F112 OF 114 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	268	557

ROAD WORK 750 FT.
CW20-1A (750')
48" x 48"

ONE LANE ROAD 500 FT.
CW20-4(500')
48" x 48"

TRUE NORTH
SCALE: 1" = 80'

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

500'

ROAD WORK AHEAD
CW20-1Ad
48" x 48"
Locate 250' From Intersection

T=50' B=55'

Pele St.

Police Officer to Control Traffic

Miller St.

Existing Highway Right-of-Way and Access Control Line

Frear St.

ROAD WORK AHEAD
CW20-1Ad
48" x 48"
Locate 250' From Intersection

Police Officer to Control Traffic

ROAD WORK AHEAD
CW20-1Ad
48" x 48"
Locate 250' From Intersection

Cones at 10' o.c.

Magellan Avenue

Alapai St.

ROAD WORK AHEAD
CW20-1Ad
48" x 48"
Locate 250' From Intersection

Police Officer to Control Traffic

Emerson St.

150'

MATCH LINE STA. 190+00

Cones at 10' o.c.

10' Min. Lanes

B=55'

T=50'

Capt. Cook Ave.

Vineyard Blvd. Off Ramp

Vineyard Blvd. On Ramp

Kinalau Place

END ROAD WORK
CG20-2A
48" x 24"
Install at End of Street

Interstate Route H-1 (Westbound)

Interstate Route H-1 (Eastbound)

Kinau St. Off Ramp

250' 250' 250'

Pele St.

Miller St.

Frear St.

ONE LANE ROAD 350 FT.
CW20-4(350')
48" x 48"

ROAD WORK 600 FT.
CW20-1A(600')
48" x 48"

ROAD WORK AHEAD
CW20-1Ad
48" x 48"
Locate 250' From Intersection

50' 200' 250'

Ward Ave.

Cones at 10' o.c.

Flag Tree

Victoria St.

Existing Highway Right-of-Way and Access Control Line

CW20-7a
36" x 36"

250 FEET

SUPPLEMENTAL PLATE
24" x 18"

TRUE NORTH
SCALE: 1" = 80'

MATCH LINE STA. 190+00

Lunalilo Street

Interstate Route H-1 (Westbound)

Interstate Route H-1 (Eastbound)

Ward St. Off Ramp

Kinalau Place

Existing Highway Right-of-Way and Access Control Line

Police Officer to Control Traffic

CW20-7a
36" x 36"

500 FEET

SUPPLEMENTAL PLATE
24" x 18"

ROAD WORK AHEAD
CW20-1Ad
48" x 48"

Ward Ave.

Kinau St.

DATE: 11/04/98
SCALE: 1 = 80
FILE: 9815-170

PM: BST
OPER: *SHA,FAI
REVISED: 07/15/99

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

Estimated Quantities:

Pay Items:

None

Incidental Items:

Traffic Control Signs/Devices
Without Asterisk (*)
Flagman - As Shown
Police Officer

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

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Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TCP FOR MAGELLAN/CAPT. COOKE/ KINALAU PLACE

INTERSTATE ROUTE H-1 RESURFACING

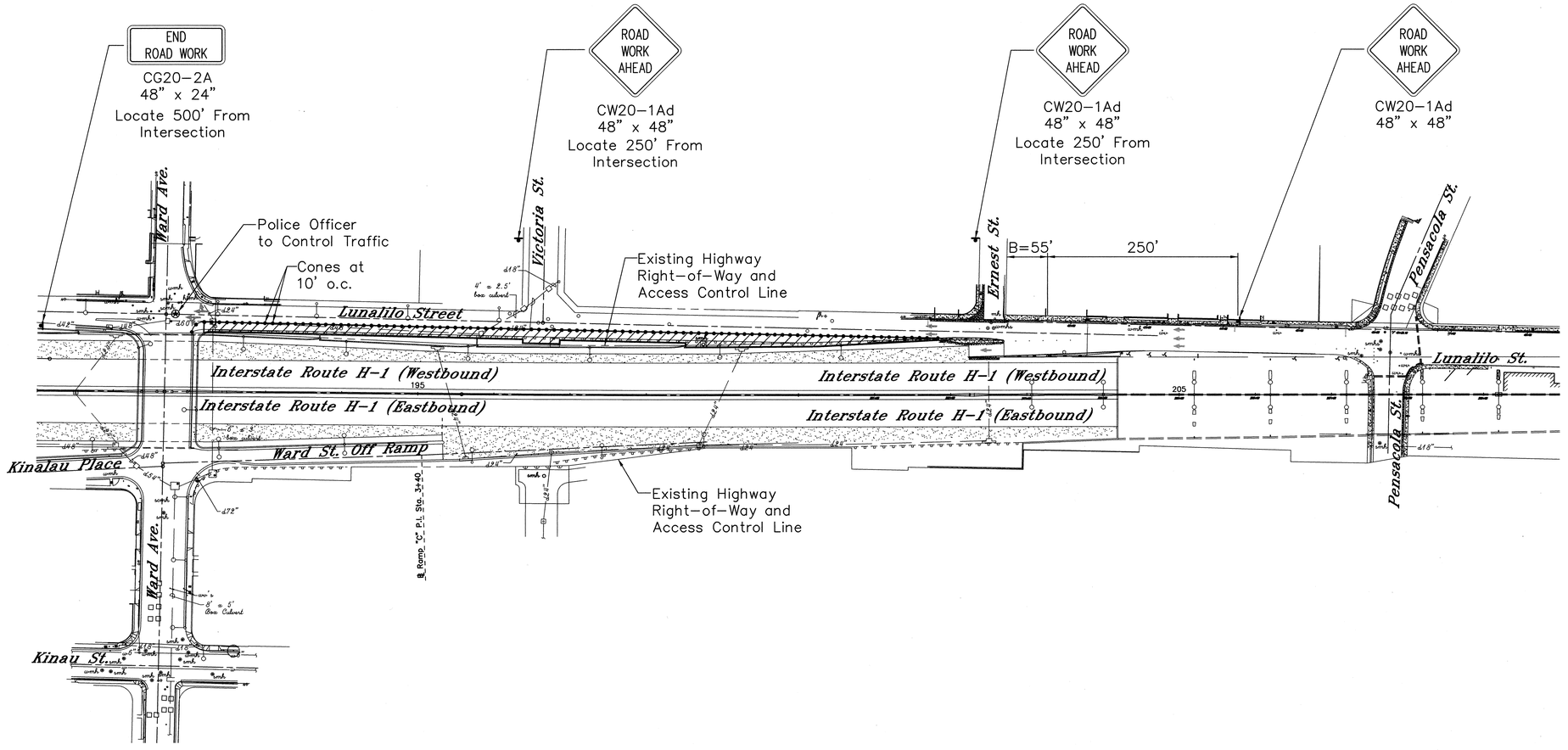
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

Scale: 1"=80' Date: June 1, 1999

SHEET NO. F113 OF 114 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	269	557

TRUE NORTH
SCALE: 1" = 80'



PM: BST
OPER: *SHA,FAI
REVISED: 07/15/99

DATE: 11/04/98
SCALE: 1 = 80
FILE: 9815-171

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

Estimated Quantities:

Pay Items:

None

Incidental Items:

Traffic Control Signs/Devices Without Asterisk (*)
Police Officer

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TCP FOR MAGELLAN/CAPT COOKE/ KINALAU PALCE

INTERSTATE ROUTE H-1 RESURFACING

Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I Project No. IM-H1-1(234)

Scale: 1"=80' Date: June 1, 1999

SHEET NO. F114 OF 114 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	270	557

EXPRESSWAY SIGN SUMMARY

TYPE	LOCATION	MESSAGE	SIZE	OVERLAY AREA (S.F.)
E-1	H-1 ℄ STA. 170+00 RT.	Kinau St., EXIT ⇩ ONLY	12'-0" X 6'-6"	78.00
E-2	H-1 ℄ STA. 172+70 LT.	(61) NORTH, Pali Hwy. ⇧	12'-6" X 9'-6"	118.75
E-3 (L)	H-1 ℄ STA. 176+90 RT.	Punahou St., 1 1/4 MILE	15'-0 X 6'-6"	97.50
E-3 (R)	H-1 ℄ STA. 176+90 RT.	Kinau St., EXIT ⇩ ONLY	12'-0 X 6'-6"	78.00
E-4	H-1 ℄ STA. 183+25 LT.	Pali Hwy. 1/4, School St. 3/4, Palama St. 1 1/2	16'-0 X 7'-6"	120.00
E-5 (R)	H-1 ℄ STA. 192+45 LT.	(98) WEST, Vineyard Blvd., ⇩ EXIT ONLY ⇩	18'-0 X 9'-6"	171.00
E-5 (L)	H-1 ℄ STA. 192+45 LT.	(61) NORTH, Pali Hwy., 1/2 MILE	13'-0 X 9'-6"	123.50
E-6	H-1 ℄ STA. 201+20 LT.	Vineyard Blvd. 1/4, Pali Hwy. 3/4, School St. 1 1/4	18'-6" X 8'-6"	157.25
E-7	H-1 ℄ STA. 228+20 RT.	Punahou St., EXIT ⇩ ONLY	15'-0" X 6'-6"	97.50
E-8 (R)	H-1 ℄ STA. 229+75 LT.	Lunalilo Street, EXIT ⇩ ONLY	11'-0" X 9'-6"	104.50
E-8 (L)	H-1 ℄ STA. 229+75 LT.	(98) WEST, Vineyard Blvd., 3/4 MILE	18'-0" X 9'-6"	171.00
E-9 (L)	H-1 ℄ STA. 234+00 RT.	Bingham St., 1/2 MILE	15'-0" X 6'-6"	97.50
E-9 (R)	H-1 ℄ STA. 234+00 RT.	Punahou St., EXIT ⇩ ONLY	15'-0" X 6'-6"	97.50
E-10	H-1 ℄ STA. 264+60 RT.	Bingham St., ⇧	15'-0" X 7'-0"	105.00
E-11	H-1 ℄ STA. 280+00 RT.	University Ave., NEXT RIGHT	18'-6" X 6'-0"	111.00
E-12	H-1 ℄ STA. 4+00 LT.	Wilder Ave., EXIT ⇩ ONLY	14'-0" X 7'-0"	98.00
E-13	H-1 ℄ STA. 12+50 LT.	Wilder Ave., NEXT RIGHT	14'-0" X 6'-0"	84.00
E-14	H-1 ℄ STA. 13+50 RT.	University Ave., ⇧	18'-6" X 7'-0"	129.50
E-15	H-1 ℄ STA. 21+00 RT.	King St., NEXT RIGHT	14'-0" X 6'-0"	84.00
E-16	H-1 ℄ STA. 24+35 LT.	University Ave., ⇧	13'-0" X 9'-6"	123.50
E-17	H-1 ℄ STA. 29+90 RT.	King St., ⇧	13'-6" X 5'-6"	74.25
E-18	H-1 ℄ STA. 34+02 RT.	6 th Avenue, 3/4 MILE	15'-0" X 5'-6"	82.50
E-19	H-1 ℄ STA. 37+48 LT.	University Avenue, 1/2 MILE	13'-0" X 8'-6"	110.50
E-22 (R)	H-1 ℄ STA. 49+44 LT.	King St., NEXT RIGHT	10'-6" X 5'-0"	52.50
			TOTAL	2566.75

EXIT NUMBER SIGN SUMMARY

INSTALLED ABOVE SIGN NO.	MESSAGE	SIZE	AREA (SQ. FT.) OVERLAY
E-1	EXIT 22	7'-6" X 2'-0"	15.00
E-2	EXIT 21B	9'-6" X 2'-0"	19.00
E-3 (L)	EXIT 23	7'-6" X 2'-0"	15.00
E-3 (R)	EXIT 22	7'-6" X 2'-0"	15.00
E-5 (R)	EXIT 22	7'-6" X 2'-0"	15.00
E-5 (L)	EXIT 21B	9'-6" X 2'-0"	19.00
E-7	EXIT 23	7'-6" X 2'-0"	15.00
E-8 (R)	EXIT 23	7'-6" X 2'-0"	15.00
E-8 (L)	EXIT 22	7'-6" X 2'-0"	15.00
E-9 (L)	EXIT 24A	9'-6" X 2'-0"	19.00
E-9 (R)	EXIT 23	7'-6" X 2'-0"	15.00
E-10	EXIT 24A	9'-6" X 2'-0"	19.00
E-11	EXIT 24B	9'-6" X 2'-0"	19.00
E-12	EXIT 24A	9'-6" X 2'-0"	19.00
E-13	EXIT 24A	9'-6" X 2'-0"	19.00
E-14	EXIT 24B	9'-6" X 2'-0"	19.00
E-15	EXIT 25A	9'-6" X 2'-0"	19.00
E-16	EXIT 24B	9'-6" X 2'-0"	19.00
E-17	EXIT 25A	9'-6" X 2'-0"	19.00
E-18	EXIT 25A	9'-6" X 2'-0"	19.00
E-19	EXIT 24B	9'-6" X 2'-0"	19.00
E-22 (R)	EXIT 25A	9'-6" X 2'-0"	19.00
		TOTAL	386.00

DIRECTIONAL SIGN SUMMARY

TYPE	LOCATION	MESSAGE	SIZE	NEW PANEL W/O POST
DIR-1	H-1 ℄ STA. 180+00 RT.	EXIT 22 ⇧	6'-0" X 5'-0"	30.00
DIR-2	H-1 ℄ STA. 187+15 LT.	EXIT 22 ⇧	6'-0" X 5'-0"	30.00
DIR-3	H-1 ℄ STA. 224+60 LT.	EXIT 23 ⇧	6'-0" X 5'-0"	30.00
DIR-5	H-1 ℄ STA. 269+00 RT.	EXIT 24A ⇧	7'-6" X 5'-0"	37.50
DIR-6	H-1 ℄ STA. 280+70 LT.	EXIT 24A ⇧	7'-6" X 5'-0"	37.50
DIR-7	H-1 ℄ STA. 18+70 LT.	EXIT 24B ⇧	7'-6" X 5'-0"	37.50
DIR-8	H-1 ℄ STA. 18+92 RT.	EXIT 24B ⇧	7'-6" X 5'-0"	37.50
DIR-9	H-1 ℄ STA. 33+80 RT.	EXIT 25A ⇧	7'-6" X 5'-0"	37.50
DIR-10	H-1 ℄ STA. 39+50 LT.	EXIT 25A ⇧	7'-6" X 5'-0"	37.50
DIR-11	H-1 ℄ STA. 49+55 LT.	EXIT 25B ⇧	7'-6" X 5'-0"	37.50
			TOTAL	352.50

PM: BST
OPER: SHA*FAI
REVISED: 05/10/99

DATE: 03/19/99
SCALE: 1" = 1'
FILE: 9815-228

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

BENJAMIN S. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 2055-C
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC SUMMARIES

INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I. Project No. IM-H1-1(234)

Scale: No Scale Date: June 1, 1999

SHEET NO. TS1 OF 3 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	271	557

PAVEMENT MARKING SUMMARY

DESCRIPTION	QUANTITY
PAVEMENT MARKERS	
TYPE A	9,100 EA.
TYPE C	4,100 EA.
TYPE D	115 EA.
TYPE H	1,220 EA.
TYPE J	30 EA.
TAPE – TYPE I OR THERMOPLASTIC EXTRUSION	
4-INCH PAVEMENT STRIPE (WHITE)	10,100 L.F.
8-INCH PAVEMENT STRIPE (WHITE)	2,800 L.F.
DOUBLE 4-INCH PAVEMENT STRIPE (YELLOW)	1,800 L.F.
MILEPOST PAVEMENT MARKINGS	7 EA.
TAPE – TYPE II OR THERMOPLASTIC EXTRUSION	
4-INCH PAVEMENT STRIPE (WHITE)	44,700 L.F.
4-INCH PAVEMENT STRIPE (YELLOW)	47,500 L.F.
8-INCH PAVEMENT STRIPE (WHITE)	12,400 L.F.
12-INCH PAVEMENT STRIPE (WHITE)	1,430 L.F.
12-INCH PAVEMENT STRIPE (YELLOW)	370 L.F.
TAPE – TYPE III OR THERMOPLASTIC EXTRUSION	
4-INCH PAVEMENT STRIPE (WHITE)	210 L.F.
12-INCH PAVEMENT STRIPE (WHITE)	1000 L.F.
CROSSWALK MARKINGS	160 LANES
PAVEMENT ARROW	35 EA.
PAVEMENT WORD	6 EA.

REFLECTOR MARKER SUMMARY

TYPE	QUANTITY				
	W/ FLEXIBLE POST	W/ STEEL POST	W/ COLUMN OR WALL SUPPORT	W/ BRACKET MOUNTED ON CONC. BARRIER	MTD. ON EXIST. UTILITY POLE
RM-2 (WHITE)	10	39			
RM-2 (YELLOW)	38	24		4	
RM-3 (YELLOW)	4	1			
RM-4		13	24		
RM-9		11*			
TYPE II OBJECT MARKER					65
TOTAL	**52**	**77**	**24**	**4**	**65**

NOTE:
* Reflector Marker RM-9, 9 Mounted on Existing Sign Post, 2 Mounted on Sign Post being replaced with New Sign.

DESTINATION SIGN SUMMARY

SIGN NO.	LOCATION	MESSAGE	SIZE	NEW PANEL AREA (SQ. FT.) W/O POSTS
D-3	H-1 ₿ STA. 208+25± (33'±0/S) LT. LUNALILO STREET	ALA MOANA ⇦	4'-0"x 2'-0"	8.00
D-4	H-1 ₿ STA. 209+20± (25'±0/S) LT. LUNALILO STREET	POST OFFICE | PENSACOLA ONLY | ⇧ FREEWAY | ⇧ WARD AVE.	6'-0"x 3'-0"	18.00
D-5	H-1 ₿ STA. 211+45± (30'±0/S) LT. LUNALILO STREET	ALA MOANA ⇦	4'-0"x 2'-0"	8.00
D-6	H-1 ₿ STA. 211+20± (28'±0/S) LT. LUNALILO STREET	POST OFFICE | PENSACOLA ONLY | ⇧ FREEWAY | ⇧ WARD AVE.	6'-0"x 3'-0"	18.00
D-7	H-1 ₿ STA. 212+13± (80'±0/S) LT. LUNALILO STREET	⇧ FREEWAY | ⇧ WARD AVE.	4'-0"x 2'-6"	10.00
D-8(L)	H-1 ₿ STA. 214+55± (50'±0/S) RT. PIIKOI STREET	Post Office Pensacola ⇩	11'-6"x 8'-6"	97.75
D-8(R)	H-1 ₿ STA. 214+55± (50'±0/S) RT. PIIKOI STREET	(H1) WEST Freeway ⇩	9'-0"x 8'-6"	76.50
D-9	H-1 ₿ STA. 214+37± (100'±0/S) RT. PIIKOI STREET	ONLY ⇧ ⇧ ⇧	4'-6"x 2'-6"	11.25
D-11	H-1 ₿ STA. 216+40± (25'±0/S) LT. LUNALILO STREET	POST OFFICE PENSACOLA ⇧ FREEWAY ⇧ WARD AVE.	5'-0"x 3'-6"	17.50
D-12	H-1 ₿ STA. 219+98± (77'±0/S) LT. LUNALILO STREET	FREEWAY 2nd LANE	6'-6"x 3'-0"	19.50
D-14	H-1 ₿ STA. 256+00± (52'±0/S) LT. METCALF STREET	(H1) WEST FREEWAY ⇩	7'-6"x 4'-0"	30.00
		TOTAL		**314.50**

MILEPOST MARKER SUMMARY

LOCATION	SIGN NO. & MESSAGE	QUANTITY W/ POST	QUANTITY W/O POST
H-1 ₿ STA. 170+80± LT. & RT.	D10-5 (22)		2
H-1 ₿ STA. 222+70± RT.	D10-5 (23)	1	
H-1 ₿ STA. 275+65± LT. & RT.	D10-5 (24)		3
H-1 ₿ STA. 48+80± LT. & RT.	D10-5 (25)	2	
	TOTAL	**3**	**5**

BENJAMIN S. TANAKA ★ LICENSED PROFESSIONAL ENGINEER No.2055-C ★ HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

Benjamin S. Tanaka

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC SUMMARIES

INTERSTATE ROUTE H-1 RESURFACING
Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I. Project No. IM-H1-1(234)

Scale: No Scale Date: June 1, 1999

SHEET NO. TS2 OF 3 SHEETS

DATE: 03/19/99
SCALE: 1 = 1
FILE: 9815-229

PM: BST
OPER: *SHA.FAI.BTY
REVISED: 07/15/99

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IM-H1-1(234)	2000	272	557

CONSTRUCTION SIGN SUMMARY

LOCATION	STATION OR REFERENCE SHEET	SIGN NO.	MESSAGE	W/ 2 POSTS
H-1 FREEWAY (EAST BOUND)	H-1 ℄ Sta. 73+00 (LT. & RT.)	CW21-4-A CW13-1(40)-A	ROAD WORK 1 MILE SPEED ADVISORY SIGN (40 MPH)	2
	H-1 ℄ Sta. 99+00 (LT. & RT.)	CW21-4-A CW13-1(40)-A	LEFT TWO LANES CLOSED 1/2 MILE SPEED ADVISORY SIGN (40 MPH)	2
	H-1 ℄ Sta. 115+00 (LT. & RT.)	CW4-2(L)-A CW13-1(40)-A	SPEED ADVISORY SIGN (40 MPH)	2
	H-1 ℄ Sta. 137+50 (LT. & RT.)	CW4-2(L)-A CW13-1(40)-A	SPEED ADVISORY SIGN (40 MPH)	2
	H-1 ℄ Sta. 59+50 (LT. & RT.)	CG20-2A	END ROAD WORK	2
VINEYARD BLVD. ON RAMP	REFER TO SHT. F16	CW20-1A (750') CW13-1(25)-A	ROAD WORK 750 FT. SPEED ADVISORY SIGN (25 MPH)	2 *
	REFER TO SHT. F16	CW20-1A (500')(R) CW13-1(25)-A	RIGHT LANE CLOSED 500 FT. SPEED ADVISORY SIGN (25 MPH)	2 *
	REFER TO SHT. F16	CW4-2(R)-A CW13-1(25)-A	SPEED ADVISORY SIGN (25 MPH)	2 *
WARD AVENUE ON RAMP	REFER TO SHT. F17	CW20-1A (750') CW13-1(25)-A	ROAD WORK 750 FT. SPEED ADVISORY SIGN (25 MPH)	1
	REFER TO SHT. F17	CW20-1A (500') CW13-1(25)-A	ROAD WORK 500 FT. SPEED ADVISORY SIGN (25 MPH)	1
PIIKOI ST. ON RAMP	REFER TO SHT. F18	CW20-1A (750') CW13-1(25)-A	ROAD WORK 750 FT. SPEED ADVISORY SIGN (25 MPH)	1
	REFER TO SHT. F18	CW20-1A (500') CW13-1(25)-A	ROAD WORK 500 FT. SPEED ADVISORY SIGN (25 MPH)	1
OLD WAIALAE RD.	REFER TO SHT. F23	CW20-1A (750') CW13-1(25)-A	ROAD WORK 750 FT. SPEED ADVISORY SIGN (25 MPH)	1 *
	REFER TO SHT. F23	CW20-1A (500') CW13-1(25)-A	ROAD WORK 500 FT. SPEED ADVISORY SIGN (25 MPH)	1 *
	REFER TO SHT. F23	CW20-1A (750') CW13-1(25)-A	ROAD WORK 750 FT. SPEED ADVISORY SIGN (25 MPH)	1 *
	REFER TO SHT. F23	CW4-2(R)-A CW13-1(25)-A	SPEED ADVISORY SIGN (25 MPH)	1 *
KAPIOLANI BLVD. ON RAMP	REFER TO SHT. F101	CW20-1Ad	ROAD WORK AHEAD	1 *
	REFER TO SHT. F101	CG20-2A	END ROAD WORK	1
KAPIOLANI BLVD. ON & OFF RAMP	REFER TO SHT. F102	CG20-2A	END ROAD WORK	2
	REFER TO SHT. F103	CW4-2(R)-A CW13-1(40)-A	SPEED ADVISORY SIGN (40 MPH)	2
	REFER TO SHT. F103	CW20-5(1/2MI)(R) CW13-1(40)-A	RIGHT LANE CLOSED 1/2 MILE SPEED ADVISORY SIGN (40 MPH)	2
	REFER TO SHT. F103	CW21-4-A CW13-1(40)-A	ROAD WORK 1 MILE SPEED ADVISORY SIGN (40 MPH)	2
			TOTAL	34

CONSTRUCTION SIGN SUMMARY

LOCATION	STATION OR REFERENCE SHEET	SIGN NO.	MESSAGE	W/ 2 POSTS
H-1 FREEWAY (WEST BOUND)	H-1 ℄ Sta. 165+00 (LT. & RT.)	CG20-2A	END ROAD WORK	2
	H-1 ℄ Sta. 70+20 (LT. & RT.)	CW4-2(L)-A CW13-1(40)-A	SPEED ADVISORY SIGN (40 MPH)	2
	H-1 ℄ Sta. 92+20 (LT. & RT.)	CW4-2(L)-A CW13-1(40)-A	SPEED ADVISORY SIGN (40 MPH)	2
	H-1 ℄ Sta. 108+20 (LT. & RT.)	CW20-8(L)-A CW13-1(40)-A	LEFT TWO LANES CLOSED 1/2 MILE SPEED ADVISORY SIGN (40 MPH)	2
	H-1 ℄ Sta. 134+20 (LT. & RT.)	CW21-4-A CW13-1(40)-A	ROAD WORK 1 MILE SPEED ADVISORY SIGN (40 MPH)	2
VINEYARD BLVD.	REFER TO SHT. F64	CW-20-1Ad	ROAD WORK AHEAD	2 *
	REFER TO SHT. F64	CG20-2A	END ROAD WORK	2 *
	REFER TO SHT. F64 (OFF LUSITANA ST.)	CG20-2A	END ROAD WORK	1 *
KINALAU PL.	REFER TO SHT. F65	CG20-2A	END ROAD WORK	1 *
			TOTAL	16

* Construction Warning Sign with 2 Posts – Frontage Road.

PM: BST
OPER: SHA,FAI,*BTY
REVISED: 07/19/99
DATE: 03/19/99
SCALE: 1 = 1
FILE: 9815-230

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

BENJAMIN S. TANAKA ★ LICENSED PROFESSIONAL ENGINEER No.2055-C ★ HAWAII, U.S.A.

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TRAFFIC SUMMARIES

INTERSTATE ROUTE H-1 RESURFACING

Vic. of Punchbowl Off Ramp to Kapiolani IC
F.A.I. Project No. IM-H1-1(234)

Scale: No Scale Date: June 1, 1999

SHEET NO. TS3 OF 3 SHEETS