

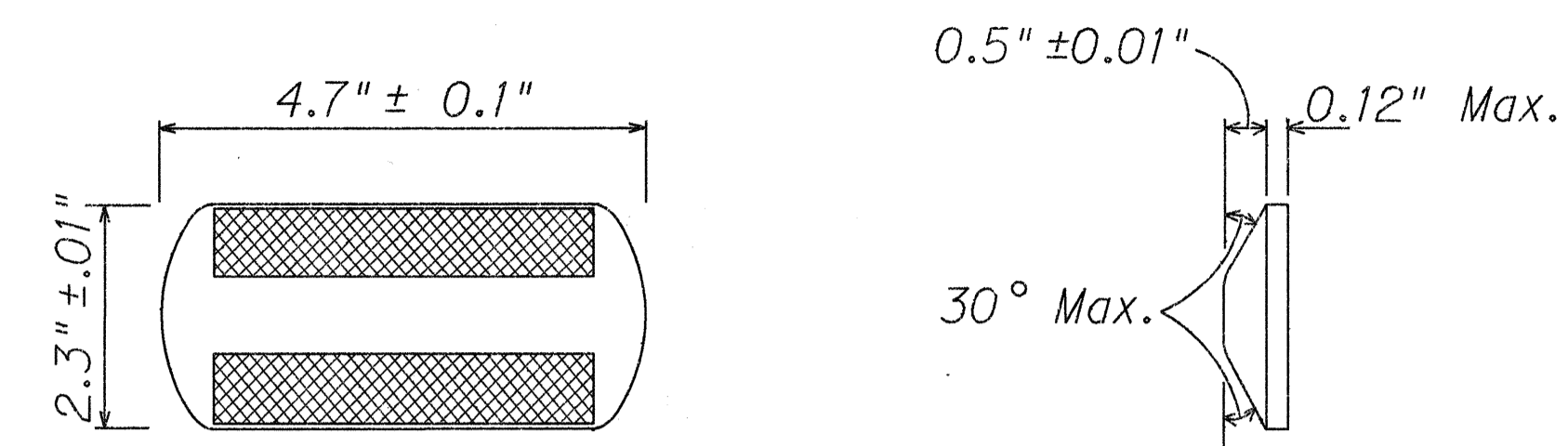
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-093-1(11)	1994	18	81

LEGEND

- 4 each Type A Raised Pavement Markers
Type CL Raised Pavement Markers @ 40'-0" o.c.
- 4 each Type J Raised Pavement Markers
Type DL Raised Pavement Markers @ 40'-0" o.c.
- 8" White Stripe with Type CL Raised Pavement Markers @ 20'-0" o.c. (Tape, Type I or Thermoplastic Extrusion)
- 4" Double Solid Yellow with Type DL Raised Pavement Markers @ 20'-0" o.c. (Tape, Type I or Thermoplastic Extrusion)
- 4" Double Solid Yellow Stripes with Type HL Raised Pavement Markers @ 20'-0" o.c. (Tape, Type II or Thermoplastic Extrusion)
- 4" Yellow Edge Stripe with Type HL Raised Pavement Markers @ 40'-0" o.c. (Tape, Type II or Thermoplastic Extrusion)
- 4" Double Solid White Stripes with Type CL 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 CL Raised Pavement Markers @ 20'-0" o.c.
4" White Stripe (Tape, Type I or Thermoplastic Extrusion)
- 4" or 8" White Edge Stripe with Type CL Raised Pavement Markers @ 40'-0" o.c. (Tape, Type II or Thermoplastic Extrusion)
- 4" White Guide Lines (Thermoplastic Extrusion)
- 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)
- Crosswalk and Stop Line. All Stop Lines shall be 10'-0" from Crosswalk unless otherwise noted. The circled number indicates the number of lanes for payment. (Thermoplastic Extrusion)
- Pavement Arrow (Tape, Type I or Thermoplastic Extrusion)
- Pavement Word (Tape, Type I or Thermoplastic Extrusion)
- 4 Each Type J Raised Pavement Markers
Type DL Raised Pavement Markers @ 40'-0" o.c.
Type HL Raised Pavement Markers (Reflective Surface facing no-passing direction)
- 4" Single Solid Yellow Stripe (Tape, Type I or Thermoplastic Extrusion)
- Extension of Edge Line, 4" Wide x 2'-0" Long White Stripe @ 10'-0" o.c.w/Type CL Markers @ 40'-0" o.c. (Thermoplastic Extrusion)

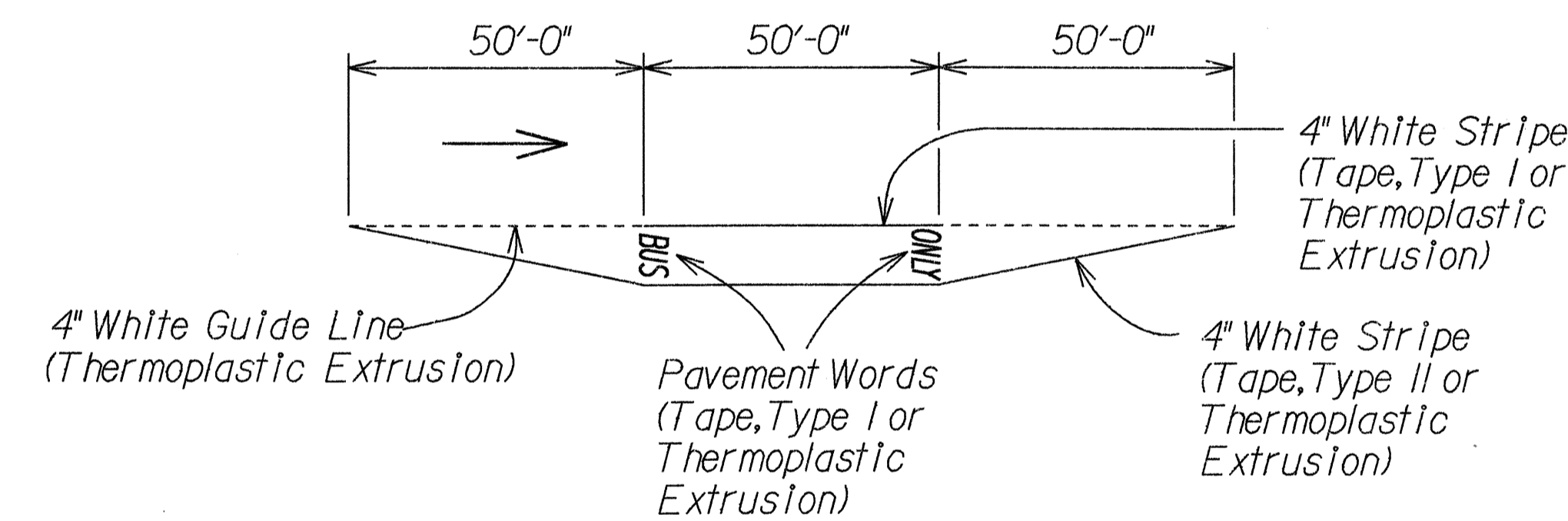
NOTES

1. Layout of pavement markings and striping shall be done by the Contractor and approved by the Engineer prior to any installation work.
2. Existing pavement markings not incorporated in the final traffic pattern shall be removed as directed by the Engineer. Costs shall be incidental to the various pavement marking items.
3. Raised pavement markers shall not be installed within crosswalks.
4. Details of Type C, Type D and Type H Markers on Standard Plan Nos. TE-30, TE-31 and TE-32 shall be deleted and replaced with details of Type CL, Type DL and Type HL Markers as shown on this sheet. All references to Type C, Type D and Type H Markers in the plans shall mean Type CL, Type DL and Type HL Markers.
5. Final locations of all signs shall be approved by the Engineer prior to any installation work.
6. 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.
7. Final locations of all Stop Lines shall be approved by the Engineer prior to installation.
8. All pavement striping shall be as noted on the Legend or plans.
9. 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.

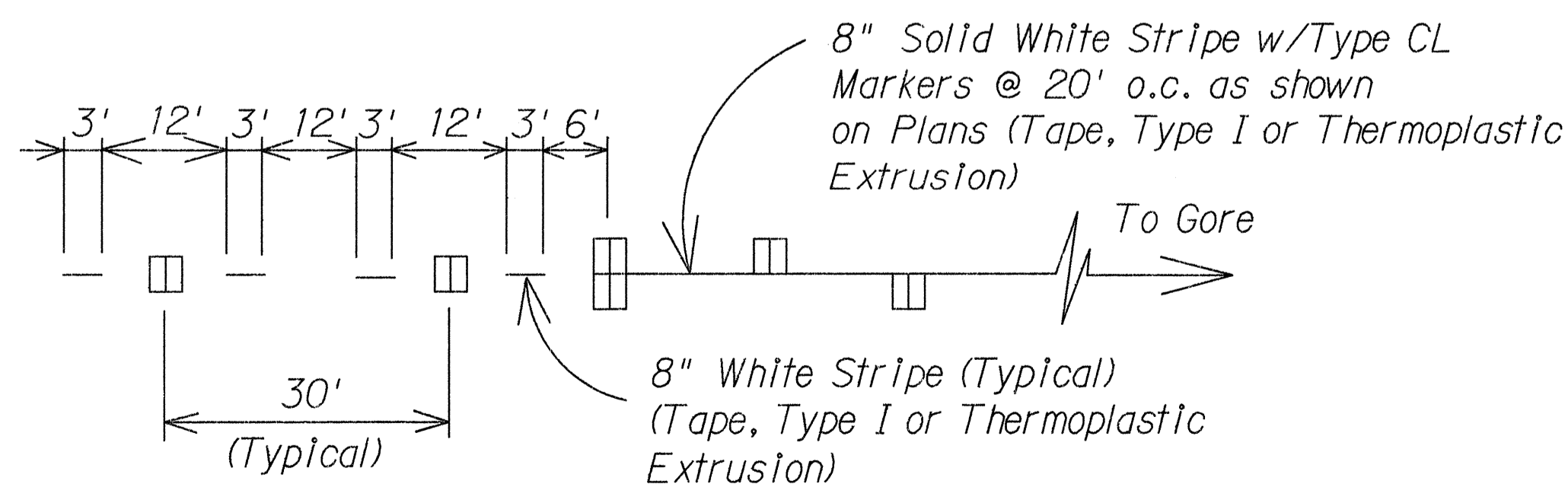


TYPE CL
Red-Clear Reflective Marker
or
TYPE DL
Two-Way Yellow Reflective Marker
or
TYPE HL
One-Way Yellow Reflective Marker

RAISED PAVEMENT MARKER DETAILS
Not to Scale



TYPICAL BUS BAY STRIPING
Not to Scale



LANE DROP MARKING
Not to Scale

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**PAVEMENT MARKING
LEGEND, DETAILS & NOTES**

FARRINGTON HIGHWAY REPLACEMENT
OF MAKAHA BRIDGE NOS. 3B, 4, 5, & 5A
PROJECT NO. BR-093-1(11)

Date: July, 1993

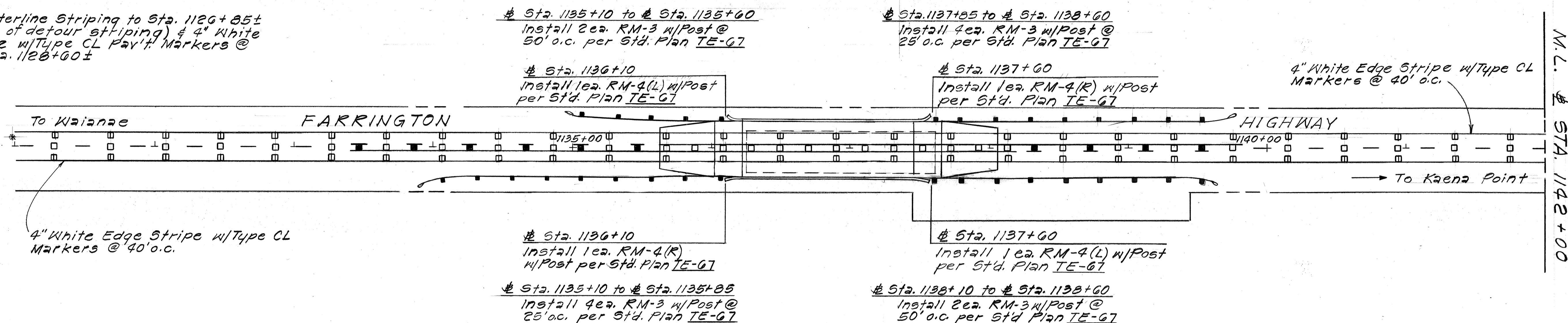
SHEET No. 11 OF 5 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-003-1(11)	1994	19	81

MAKAHA BRIDGE NO. 4

TRUE NORTH
Scale: 1" = 40'

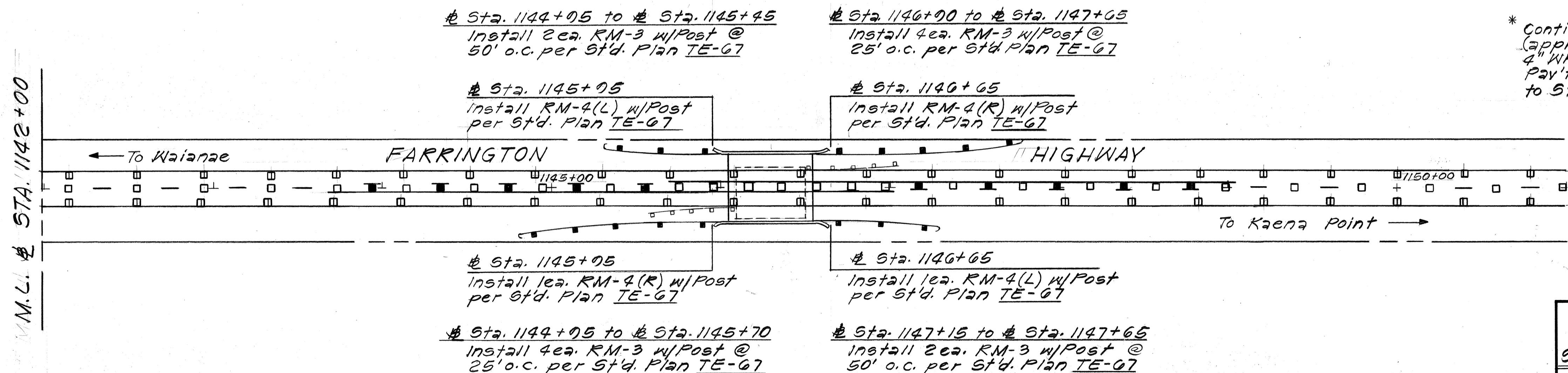
Continue Centerline Striping to Sta. 1126+85± (approx. end of detour striping) & 4" White Edge Stripe w/Type CL Pav't. Markers @ 40' o.c. to Sta. 1128+00±



MAKAHA BRIDGE NO. 5

TRUE NORTH
Scale: 1" = 40'

* Continue Centerline to Sta. 1155+30± (approx. end of detour striping) & 4" White Edge Stripe w/Type CL Pav't. Markers @ 40' o.c. (both sides) to Sta. 1154+15±



DATE	_____
DESIGNED BY	_____
DRAWN BY	_____
CHECKED BY	_____
QUANTITIES BY	_____
NOTE BOOK No.	_____

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
SIGNING & PAVEMENT MARKING
PLAN
FARRINGTON HIGHWAY REPLACEMENT
OF MAKAHA BRIDGE NOS. 3B, 4, 5 & 5A
PROJECT No. BR-003-1(11)
Scale: 1" = 40' Date: July, 1993
SHEET No. 72 OF 5 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-003-1(1)	1994	20	81

TRUE NORTH
Scale: 1" = 40'

MAKAHA BRIDGE NO. 3B

* Continue Centerline Markings to Sta. 1096+00± (approx. end of detour striping) and 4" White Edge Stripe (both sides) to Sta. 1097+10±

± Sta. 1103+50 to ± Sta. 1104+00
Install 2ea. RM-3 w/Post @ 50' o.c. per Std. Plan TE-67

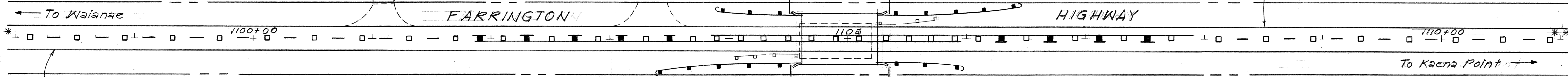
± Sta. 1105+60 to ± Sta. 1106+35
Install 4ea. RM-3 w/Post @ 25' o.c. per Std. Plan TE-67

** Continue Centerline Markings to Sta. 1114+40± (approx. end of detour striping) and 4" White Edge Stripe (both sides) to Sta. 1112+75±

± Sta. 1104+50
Install 1ea. RM-4(L) w/Post per Std. Plan TE-67

± Sta. 1105+35
Install 1ea. RM-4(R) w/Post per Std. Plan TE-67

4" White Edge Stripe w/Type CL Pav't Markers @ 40' o.c.



4" White Edge Stripe w/Type CL Pav't Markers @ 40' o.c.

± Sta. 1104+50
Install 4ea. RM-4(R) w/Post per Std. Plan TE-67

± Sta. 1105+35
Install 1ea. RM-4(L) w/Post per Std. Plan TE-67

± Sta. 1103+50 to ± Sta. 1104+25
Install 4ea. RM-3 w/Post @ 25' o.c. per Std. Plan TE-67

± Sta. 1105+85 to 1106+35
Install 2ea. RM-3 w/Post @ 50' o.c. per Std. Plan TE-67

* Continue Centerline Markings to Sta. 1162+00± (approx. end of detour striping) and 4" White Edge Stripe w/Type CL Pav't Markers @ 40' o.c. (both sides) to Sta. 1164+75±

MAKAHA BRIDGE NO. 5A

TRUE NORTH
Scale: 1" = 40'

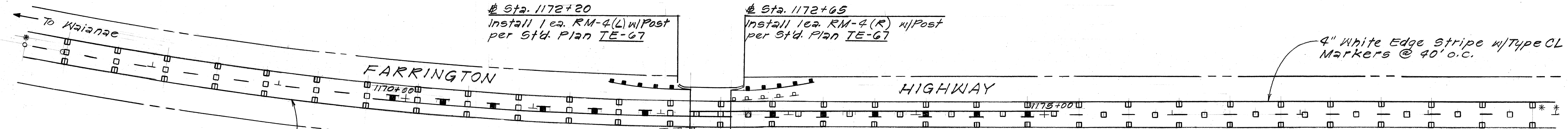
± Sta. 1171+20 to ± Sta. 117+95
Install 2ea. RM-3 w/Post @ 50' o.c. per Std. Plan TE-67

± Sta. 1172+00 to ± Sta. 1172+65
Install 4ea. RM-3 w/Post @ 25' o.c. per Std. Plan TE-67

± Sta. 1172+20
Install 1ea. RM-4(L) w/Post per Std. Plan TE-67

± Sta. 1172+65
Install 1ea. RM-4(R) w/Post per Std. Plan TE-67

4" White Edge Stripe w/Type CL Markers @ 40' o.c.



4" White Edge Stripe w/Type CL Pav't Markers @ 40' o.c.

± Sta. 1172+20
Install 1ea. RM-4(R) w/Post per Std. Plan TE-67

± Sta. 1172+65
Install 1ea. RM-4(L) w/Post per Std. Plan TE-67

± Sta. 1171+20 to ± Sta. 1171+95
Install 4ea. RM-3 w/Post @ 25' o.c. per Std. Plan TE-67

** Continue Centerline Markings to Sta. 1182+30± (approx. end of detour striping) and 4" White Edge Stripe w/Type CL Pav't Markers @ 40' o.c. (both sides) to Sta. 1180+05±

± Sta. 1173+15 to ± Sta. 1173+65
Install 2ea. RM-3 w/Post @ 50' o.c. per Std. Plan TE-67

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SIGNING & PAVEMENT MARKING PLAN

FARRINGTON HIGHWAY REPLACEMENT
OF MAKAHA BRIDGE NOS. 3B, 4, 5 & 5A
PROJECT No. BR-003-1(1)

Scale: 1" = 40' Date: July, 1993

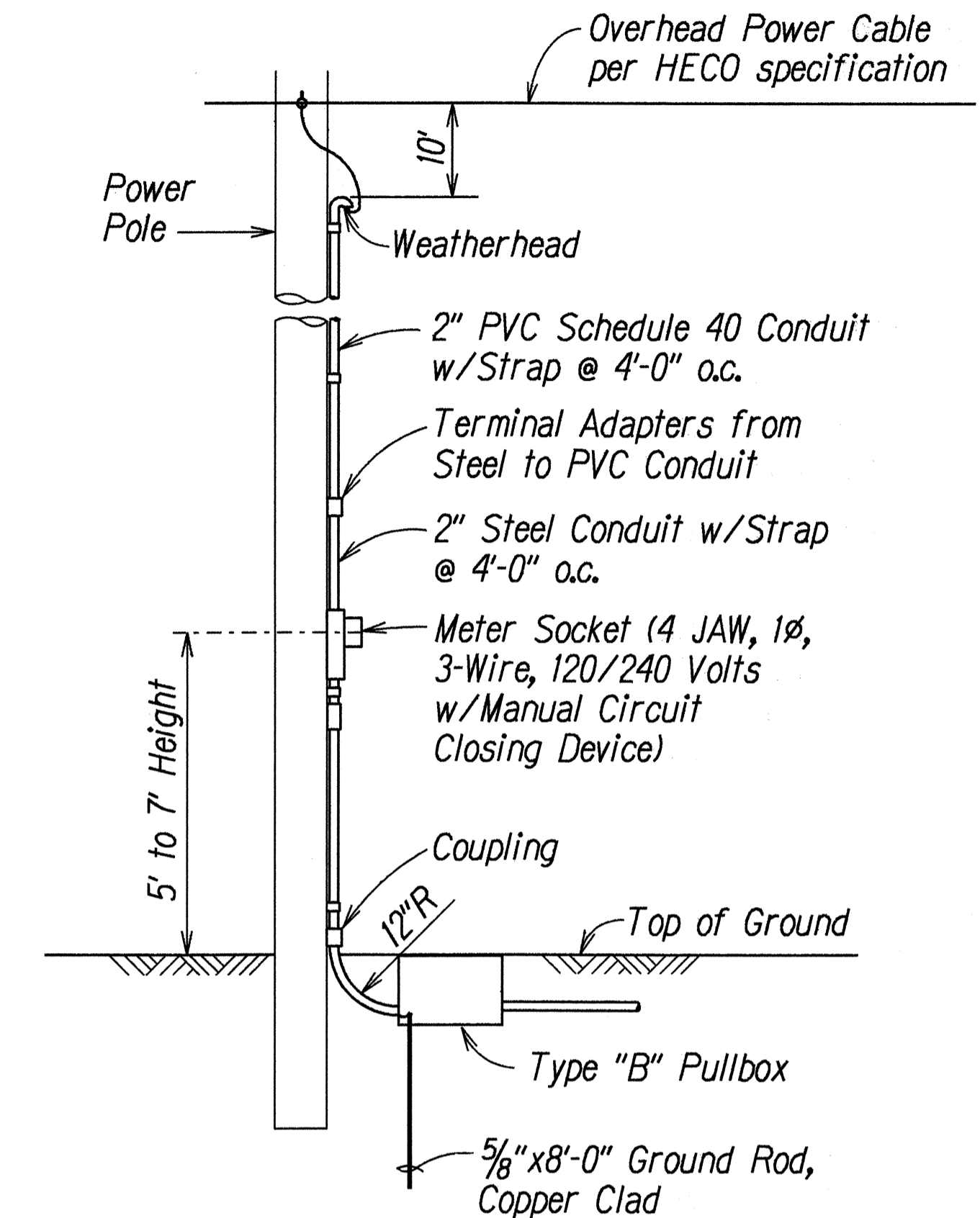
SHEET No. 20 OF 5 SHEETS

TRAFFIC SIGNAL LEGEND

- C Traffic Signal Controller (Controller and Cabinet provided by City, DTS, Contractor to construct foundation as specified by DTS and all necessary conduits for connection)
- °PP Service Pole (25') w/30A Meter to bring overhead power from Mauka side
- New 12" RYG Traffic Signal Head
- New Type B Pullbox
- 2" Schedule 80 PVC Conduits (Underground)
- - - - 2" Schedule 80 PVC Conduits (attached to Detour Bridge)
- New Loop Detectors

TRAFFIC SIGNAL SYSTEM CONDUIT AND CABLE SCHEDULE						
	DELTA ITEM NO. (Δ)					
	1	2	3	4	5	6
QUANTITY OF 2" CONDUIT (SCH. 80) UNDERGROUND	1	1		1	1	3
QUANTITY OF 2" CONDUIT (SCH. 80) ATTACHED TO BRIDGE DECK			1			
QUANTITY OF 19C #14 (TRAFFIC CONTROL CABLE)		1	1		1	2
QUANTITY OF 2C #14 (LOOP DETECTOR LEAD IN CABLE)	1		1	1		2

TRAFFIC SIGNAL HEAD SCHEDULE	
Traffic Signal Head Type and Description	<div style="border: 1px solid black; padding: 2px; display: inline-block;">R</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">Y</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">G</div>
Pole Letter Signal Head Number	A-1 B-1 C-1 D-1



SERVICE POLE DETAIL
Not to Scale

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DESIGNED BY	
TITLE SHEET	CHECKED BY	
NO. 12/15/95		

3/1/95	Revised Bridge No. 4 Traffic Control
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**TRAFFIC SIGNAL LEGEND,
SCHEDULES AND DETAIL**

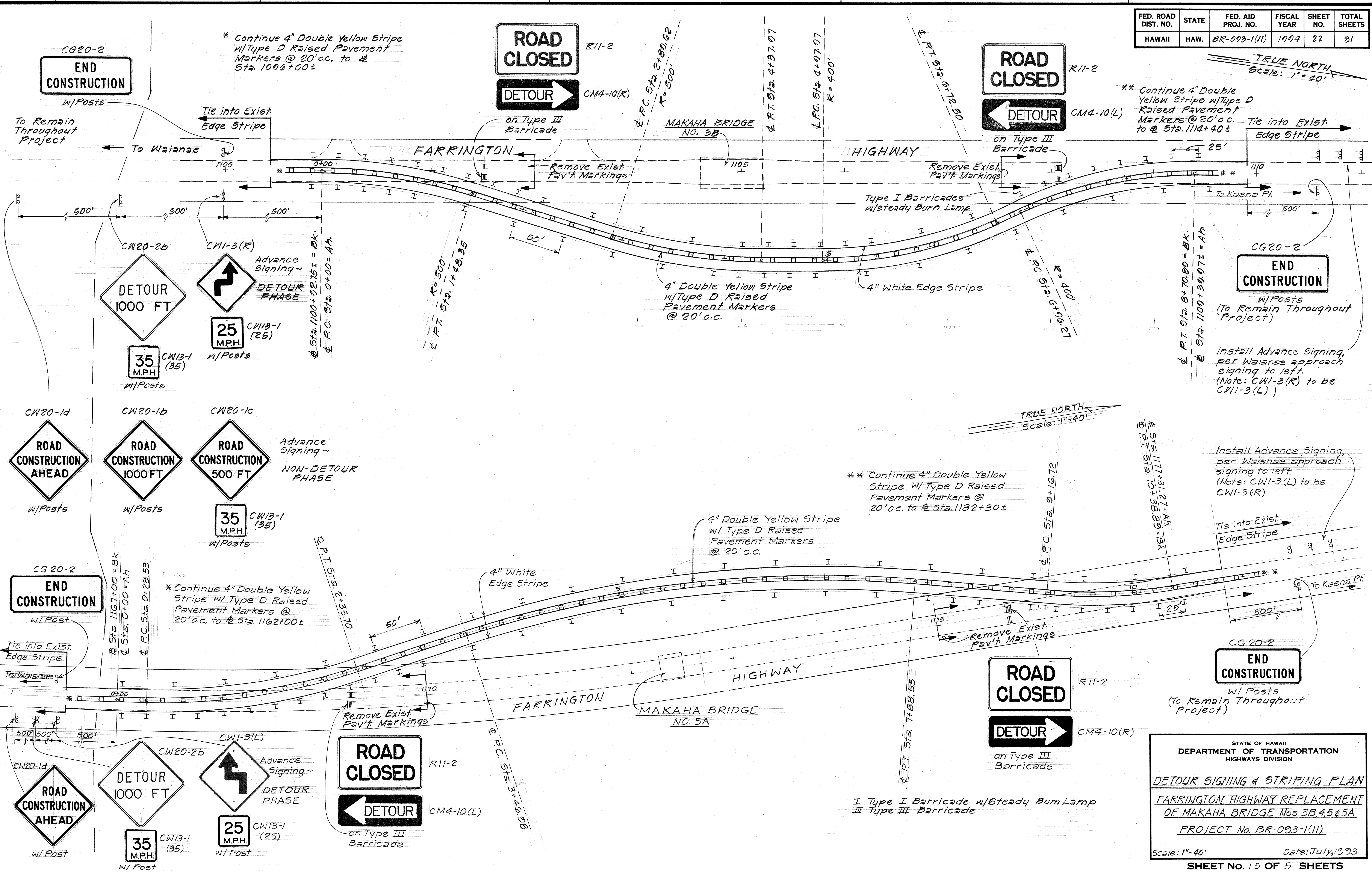
FARRINGTON HIGHWAY
REPLACEMENT OF MAKAHA BRIDGE
Nos. 3B, 4, 5, AND 5A
F.A. Project No. BR-093-1(11)

Scale: As noted Date: Sept. 1992

SHEET No. 1 OF 1 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-093-1(11)	1994	22	81

TRUE NORTH
Scale: 1" = 40'



CG20-2
END CONSTRUCTION
w/Posts

ROAD CLOSED
R11-2

DETOUR
CM4-10(R)

ROAD CLOSED
R11-2

DETOUR
CM4-10(L)

CG20-2
END CONSTRUCTION
w/Posts
(To Remain Throughout Project)

CG20-1d
ROAD CONSTRUCTION AHEAD
w/Posts

CG20-1b
ROAD CONSTRUCTION 1000 FT
w/Posts

CG20-1c
ROAD CONSTRUCTION 500 FT
w/Posts

CG20-2
END CONSTRUCTION
w/Post

ROAD CLOSED
R11-2

DETOUR
CM4-10(R)

CG20-2
END CONSTRUCTION
w/Posts
(To Remain Throughout Project)

CG20-1d
ROAD CONSTRUCTION AHEAD
w/Post

CG20-2b
DETOUR 1000 FT
w/Post

CW1-3(L)
DETOUR PHASE
w/Post

ROAD CLOSED
R11-2

DETOUR
CM4-10(L)

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DETOUR SIGNING & STRIPING PLAN
FARRINGTON HIGHWAY REPLACEMENT
OF MAKAHA BRIDGE Nos. 3B, 4S & 5A
PROJECT No. BR-093-1(11)

Scale: 1" = 40' Date: July, 1993

SHEET No. 15 OF 5 SHEETS

DATE: _____
SURVEY PLOTTED BY: _____
DRAWN BY: _____
DESIGNED BY: _____
NOTE BOOK NO.: _____
QUANTITIES BY: _____
CHECKED BY: _____