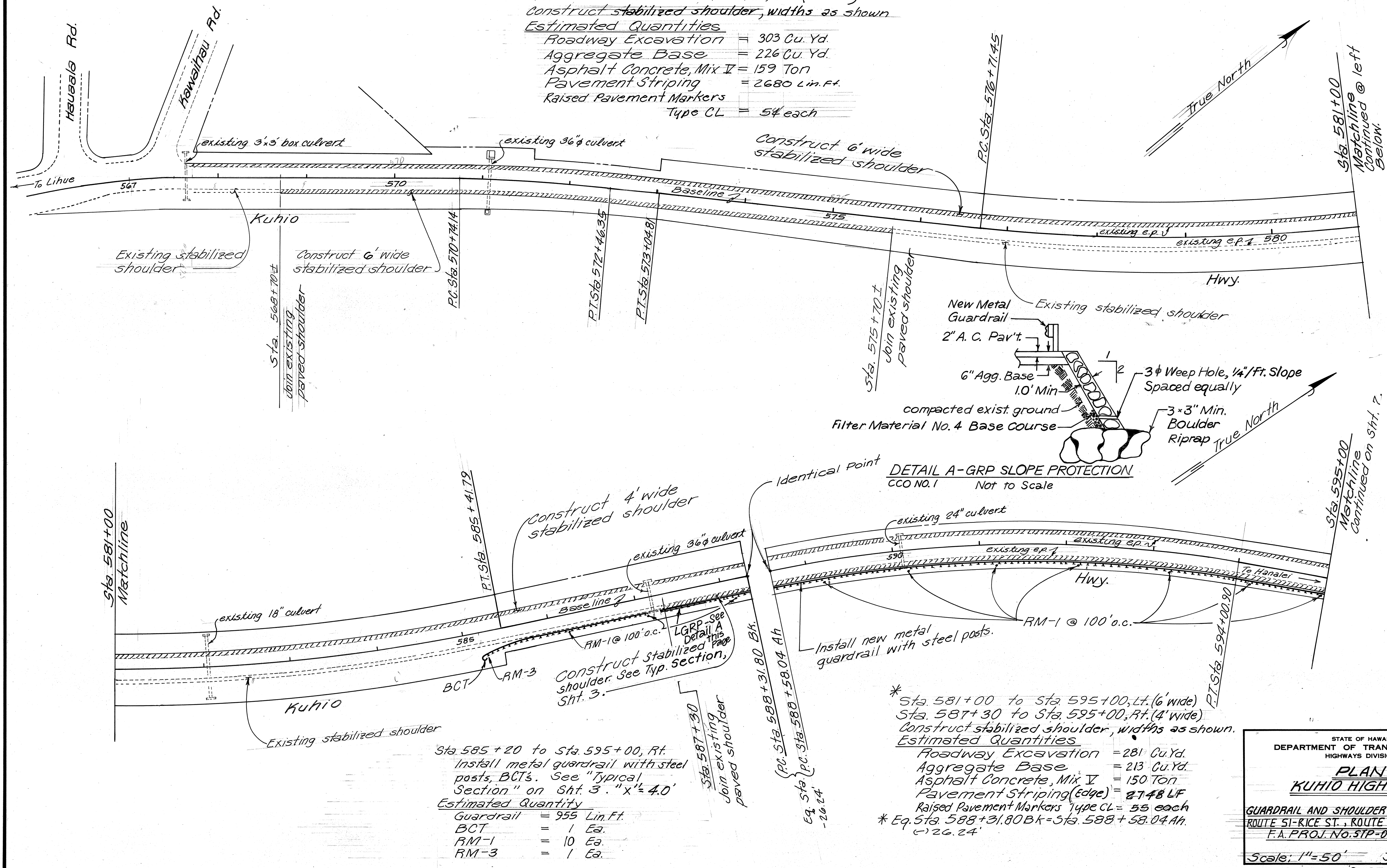


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0700 (28)	1994	6	10

Sta. 567+70 to Sta. 581+00, Lt. (6' wide)
Sta. 568+70 to Sta. 575+70, Rt. (6' wide)
Construct stabilized shoulder, widths as shown
Estimated Quantities
Roadway Excavation = 303 Cu. Yd.
Aggregate Base = 226 Cu. Yd.
Asphalt Concrete, Mix II = 159 Ton
Pavement Striping = 2680 Lin. Ft.
Raised Pavement Markers Type CL = 54 each



Sta. 585+20 to Sta. 595+00, Rt.
Install metal guardrail with steel posts, BCT's. See "Typical Section" on Sht. 3. "x" = 4.0'
Estimated Quantity
Guardrail = 955 Lin. Ft.
BCT = 1 Ea.
RM-1 = 10 Ea.
RM-3 = 1 Ea.

* Sta. 581+00 to Sta. 595+00, Lt. (6' wide)
Sta. 587+30 to Sta. 595+00, Rt. (4' wide)
Construct stabilized shoulder, widths as shown.
Estimated Quantities
Roadway Excavation = 281 Cu. Yd.
Aggregate Base = 213 Cu. Yd.
Asphalt Concrete, Mix II = 150 Ton
Pavement Striping (Edge) = 2748 LF
Raised Pavement Markers Type CL = 55 each
* Eq. Sta. 588+31.80 Bk = Sta. 588+58.04 Ah.
C-26.24

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

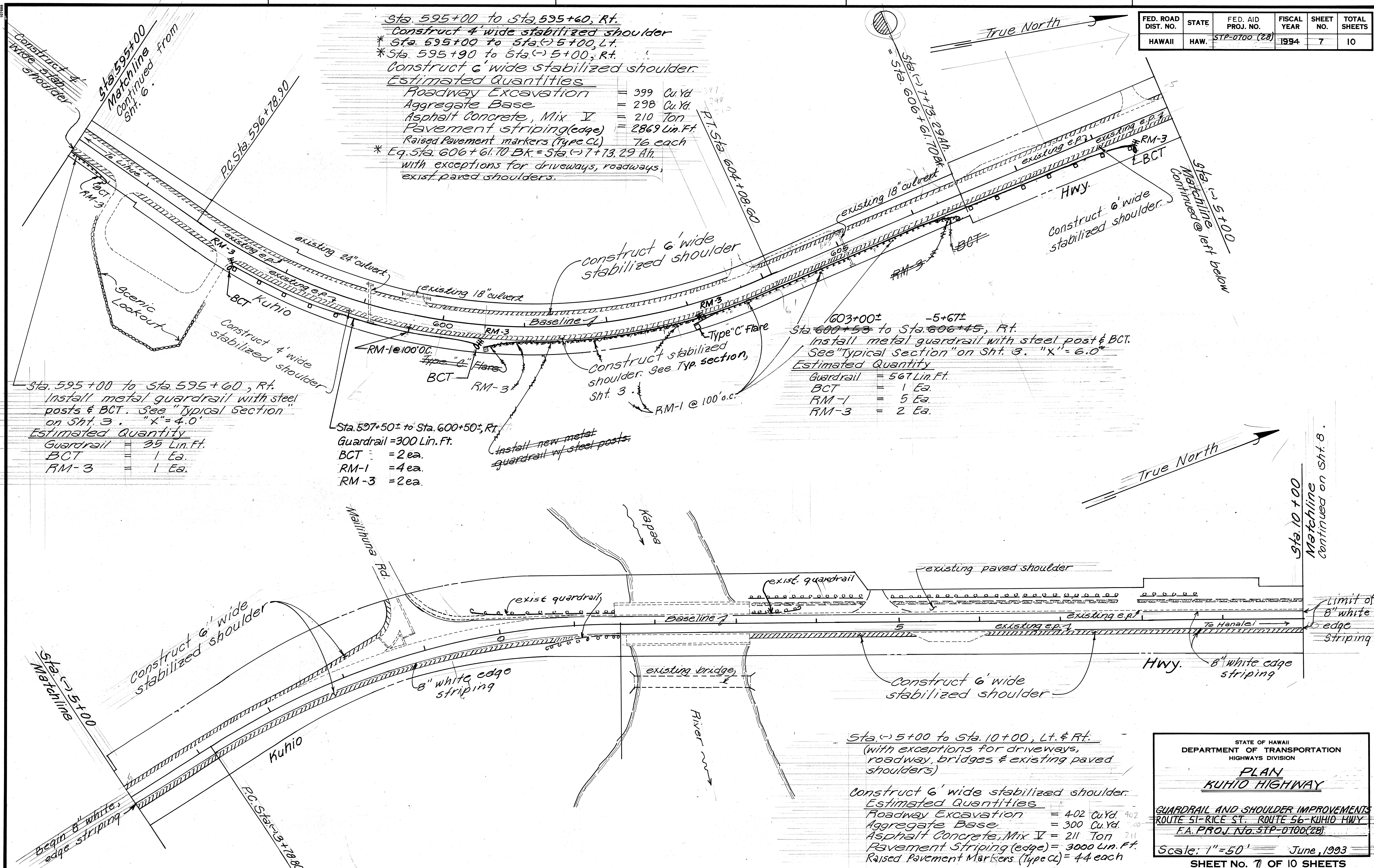
PLAN
KUHIO HIGHWAY

GUARDRAIL AND SHOULDER IMPROVEMENTS
ROUTE 51-RICE ST., ROUTE 56-KUHIO HWY.
F.A. PROJ. NO. STP-0700(28)

Scale: 1"=50' June, 1993
SHEET No. 6 OF 10 SHEETS

"AS-BUILT"

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0700 (28)	1994	7	10



Sta. 595+00 to Sta. 595+60, Rt.
 Construct 4' wide stabilized shoulder
 * Sta. 595+00 to Sta. 5+00, Lt.
 * Sta. 595+90 to Sta. 5+00, Rt.
 Construct 6' wide stabilized shoulder.
 Estimated Quantities
 Roadway Excavation = 399 Cu. Yd.
 Aggregate Base = 298 Cu. Yd.
 Asphalt Concrete, Mix V = 210 Ton
 Pavement striping (edge) = 2869 Lin. Ft.
 Raised Pavement markers (Type CL) = 76 each
 * Eq. Sta. 606+61.70 BK = Sta. 5+7+13.29 Ah
 with exceptions for driveways, roadways,
 exist. paved shoulders.

Sta. 603+00± to Sta. 606+45, Rt.
 Install metal guardrail with steel post & BCT.
 See "Typical Section" on Sht. 3. "X" = 6.0'
 Estimated Quantity
 Guardrail = 567 Lin. Ft.
 BCT = 1 Ea.
 RM-1 = 5 Ea.
 RM-3 = 2 Ea.

Sta. 595+00 to Sta. 595+60, Rt.
 Install metal guardrail with steel posts & BCT. See "Typical Section" on Sht. 3. "X" = 4.0'
 Estimated Quantity
 Guardrail = 35 Lin. Ft.
 BCT = 1 Ea.
 RM-3 = 1 Ea.

Sta. 597+50± to Sta. 600+50±, Rt.
 Guardrail = 300 Lin. Ft.
 BCT = 2 ea.
 RM-1 = 4 ea.
 RM-3 = 2 ea.

Sta. 5+00 to Sta. 10+00, Lt. & Rt.
 (with exceptions for driveways, roadway, bridges & existing paved shoulders)
 Construct 6' wide stabilized shoulder.
 Estimated Quantities
 Roadway Excavation = 402 Cu. Yd.
 Aggregate Base = 300 Cu. Yd.
 Asphalt Concrete, Mix V = 211 Ton
 Pavement Striping (edge) = 3000 Lin. Ft.
 Raised Pavement Markers (Type CL) = 44 each

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN
KUHIO HIGHWAY

GUARDRAIL AND SHOULDER IMPROVEMENTS
ROUTE 51-RICE ST. ROUTE 56-KUHIO HWY
F.A. PROJ. No. STP-0700(28)

Scale: 1"=50' June, 1993
SHEET No. 7 OF 10 SHEETS

ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DRAWN BY	
DESIGNED BY	
NOTED BY	
CHECKED BY	

"AS-BUILT"

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0100(28)	1994	8	10

Sta. 19+20 to Sta. 25+00, Lt.
Sta. 10+00 to Sta. 25+00, Rt.
(with exceptions for driveways
and existing paved shoulders)

Construct stabilized shoulder.
(See Plan for shoulder width)

Estimated Quantities

Roadway Excavation = 248 Cu.Yd. 496
Aggregate Base = 187 Cu.Yd. 187
Asphalt Concrete, Mix V = 130 Ton 248
Pavement Striping = 3000 Lin. Ft.
Raised Pavement Markers (Type CL) = 46 Each
RM-3 = 2 ea., RM-1 = 6 ea.

True North

Sta. 25+00
Matchline
Continued @
left below

Sta. 10+00
Matchline
Continued from
Sht. 7.

10

Sta. 25+00
Matchline

Sta. 40+00
Matchline
Continued on Sht. 9.

Kuhio

Construct 6' wide
stabilized shoulder

Existing stabilized shoulder

Construct 6' wide
stabilized shoulder

Construct stabilized
shoulder.

existing 24" culvert

Construct 6' wide
stabilized shoulder

Hwy.

Construct stabilized
shoulder.

existing guardrail

True North

Construct stabilized
shoulder
(6' wide)

Construct 11' wide
stabilized shoulder

Construct 6' wide
stabilized shoulder

RM-1 @ 100' o.c.

RM-3

existing concrete gutter

RM-1 @ 100' o.c.

RM-3

existing 6" underdrain
with seven laterals

existing concrete gutter

Hwy

Construct 6' wide
stabilized shoulder

Kuhio

existing guardrail

existing stabilized shoulder

Sta. 25+00 to Sta. 40+00
Construct stabilized shoulder
(See Plan for shoulder widths)

Estimated Quantities

Roadway Excavation = 405 Cu.Yd. 405
Aggregate Base = 302 Cu.Yd. 302
Asphalt Concrete, Mix V = 212 Ton 212
Pavement Striping (Edge) = 3000 Lin. Ft.

RM-1 = 6 ea., RM-3 = 2 ea.

Raised Pavement Marker (Type CL) = 51 each

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN KUHIO HIGHWAY

GUARDRAIL AND SHOULDER IMPROVEMENTS
ROUTE 51-RICE ST. ROUTE 56-KUHIO HWY.
F.A.P.O.J. No. STP-0100(28)

Scale: 1" = 50' June, 1993

SHEET No. 8 OF 10 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-0700(28)	1994	9	10

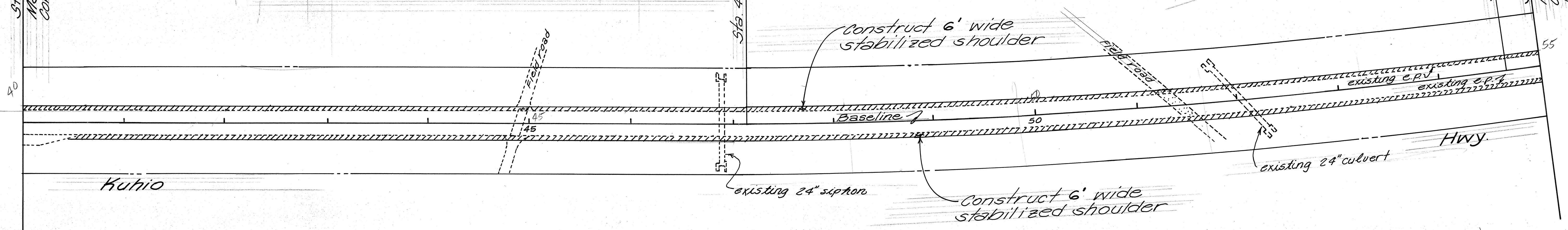
Sta 40+00 to Sta 55+00, Lt. & Rt.
(with exceptions for bus turnout)
Construct 6' wide stabilized shoulder

Estimated Quantities

Roadway Excavation	=	440 Cu.Yd.	440
Aggregate Base	=	329 Cu.Yd.	329
Asphalt Concrete, Mix V	=	231 Ton	231
Pavement Striping (Edge)	=	3000 Lin. Ft.	
Raised Pavement Marker (Type CL)	=	78 Each	

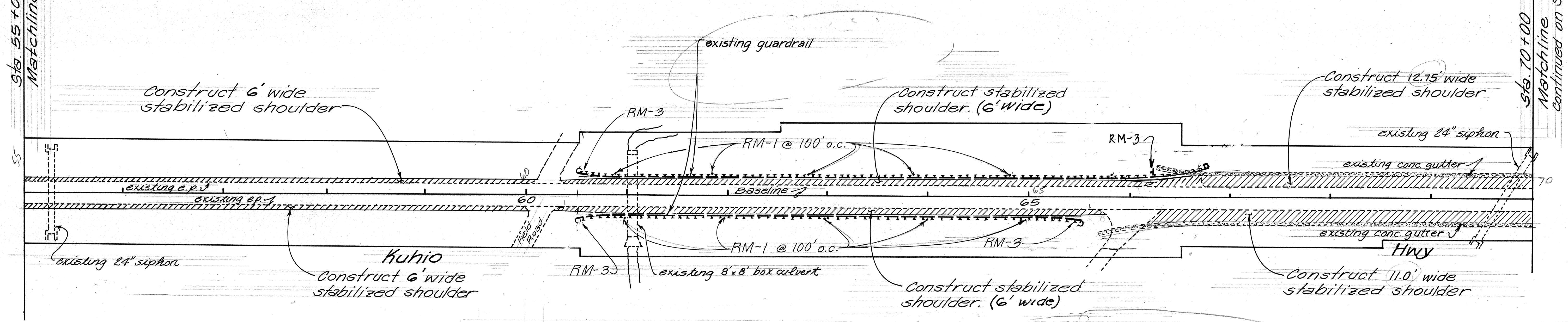
Sta. 40+00
Matchline
Continued from Sht. 8.

Sta. 54+67.24
Sta. 55+00
Matchline @
Continued
left below



Sta. 55+00
Matchline

Sta. 70+00
Matchline
Continued on Sht. 10.



Sta 55+00 to Sta 70+00
(with exception for roadway)
Construct stabilized shoulder
(See Plan for shoulder widths)

Estimated Quantities

Roadway Excavation	=	529 Cu.Yd.	529
Aggregate Base	=	394 Cu.Yd.	394
Asphalt Concrete, Mix V	=	277 Ton	277
Pavement Striping	=	3000 Lin. Ft.	
Raised Pavement Marker (Type CL)	=	78 Each	
RM-3=4 ea., RM-L=10 ea.			

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN
KUHIO HIGHWAY

GUARDRAIL AND SHOULDER IMPROVEMENTS
ROUTE 51-RICE ST. ROUTE 56-KUHIO HWY.
F.A.PROJ. No. STP-0700(28)

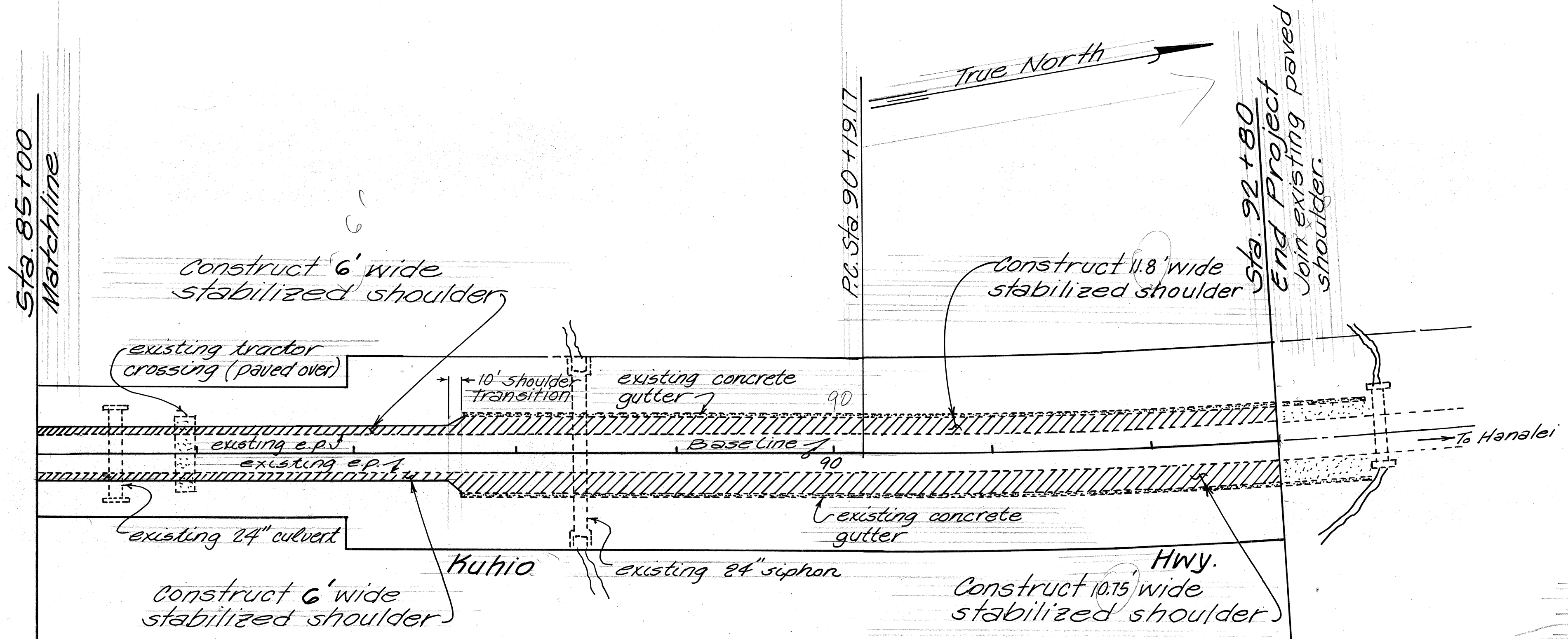
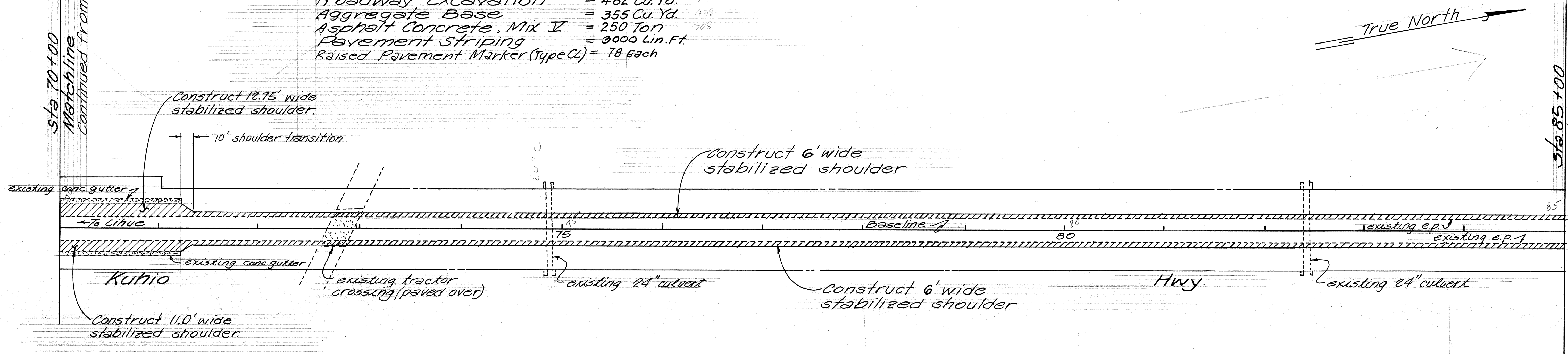
Scale: 1"= 50' June, 1993

SHEET NO. 9 OF 10 SHEETS

ORIGINAL PLAN	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

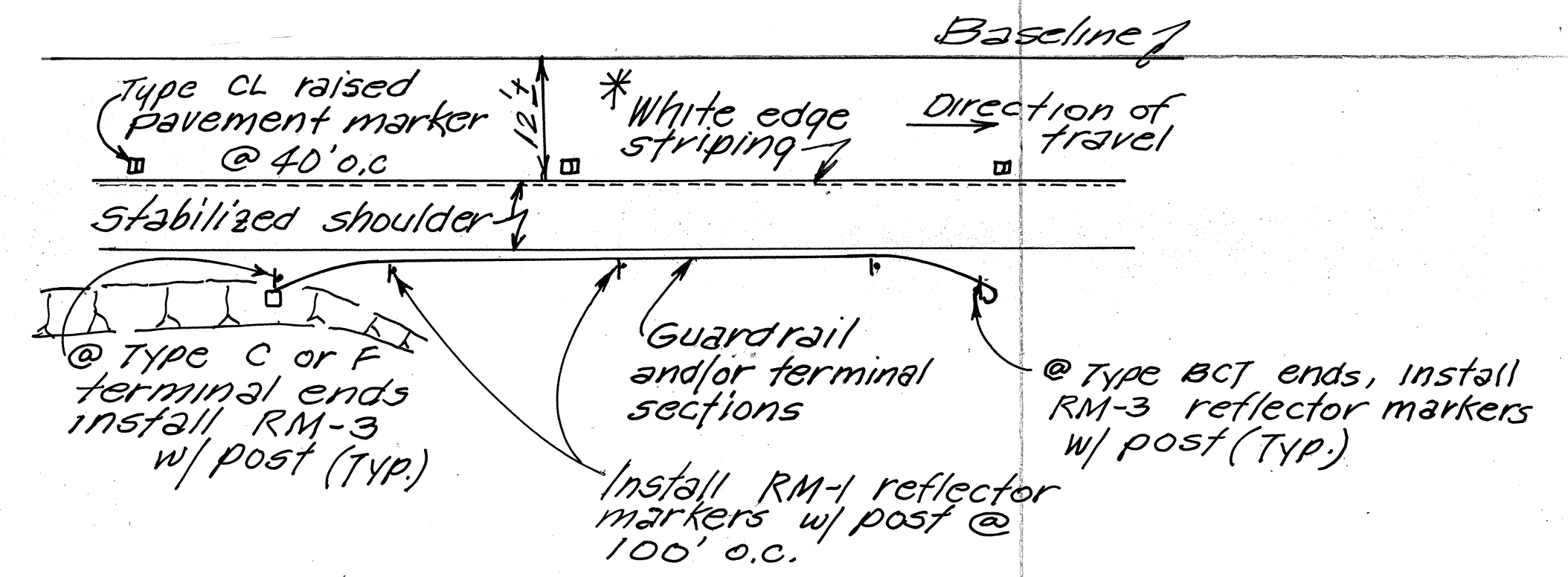
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	5TP-0700 (28)	1994	10	10

Sta. 70+00 to Sta. 85+00, Lt. & Rt.
Construct 4' wide stabilized shoulder.
Estimated Quantities
Roadway Excavation = 482 Cu. Yd. 549
Aggregate Base = 355 Cu. Yd. 438
Asphalt Concrete, Mix II = 250 Ton 208
Pavement Striping = 8000 Lin. Ft.
Raised Pavement Marker (Type CL) = 78 Each



Sta. 85+00 to 92+80
Construct stabilized shoulder.
(See Plan for shoulder widths)

Estimated Quantities
Roadway Excavation = 366 Cu. Yd. 366
Aggregate Base = 273 Cu. Yd. 273
Asphalt Concrete, Mix II = 192 Ton 192
Pavement Striping = 1560 Lin. Ft.
Raised Pavement Markers (Type CL) = 38 Each



PLAN
TYPICAL PAVEMENT MARKINGS
& REFLECTOR MARKER INSTALLATION
Scale: None

Note:
New edge striping shall be thermoplastic extrusion or tape, Type II.
Prior to installation of new striping, the existing painted striping shall be eradicated by the Contractor.

* Unless otherwise shown on the plans edge striping shall be 4" wide.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN
KUHIO HIGHWAY

GUARDRAIL AND SHOULDER IMPROVEMENTS
ROUTE 51-RICE ST. ROUTE 56-KUHIO HWY
F.A. PROJ. No. 5TP-0700 (28)

Scale: 1"=50' June, 1993
SHEET No. 10 OF 10 SHEETS

ORIGINAL PLAN	DATE
DESIGNED BY	
TRACED BY	
NOTED BY	
CHECKED BY	
NO.	