

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-093-1(7)	1984	6	39

DATE	REVISION
6/1/84	See blocked area at right for added Construction Notes per Addendum No. 1

TRUE NORTH
SCALE: 1"=50'

BEGIN PROJECT
F.A. PROJ. NO. F-093-1(7)
STA. 99+28±

Sta. 99+28± to # Sta. 100+68±
Cold Plane 716± Sq. Yd. For Details
see Plan Sht. No. 5

Sta. 100+23± to # Sta. 100+98± Lt.
Reconstruct 38± L.F. Exist. Metal
Guard Rail. Install 4 Additional
New Steel Post & Spacer Block at
3'-1 1/2" o.c. from # Sta. 100+23±
to # Sta. 100+48± Lt. Install BCT

Ulehawa Stream Bridge # Sta. 99+74±
Install Metal Guard Rail Connection
to Ulehawa Str. Bridge. For Details
see Plan Sht. Nos. 13, 14 & 17.

Sta. 100+61± to # Sta. 100+85± Lt.
Remove 24± L.F. Exist. Metal Guard Rail

Sta. 98+50± to # Sta. 99+25± Lt.
Exist. Metal Guard Rail to Remain

Sta. 98+50± to
Sta. 99+25± Lt.
Install 75± L.F. New Metal
Guard Rail, Type 3, Single
w/ Steel Post & Spacer
Block. Install Modified
Type "G" Flare.

Sta. 100+23± Lt.
Replace Damaged Pedestrian
Railing. This work will not
be paid for separately but
shall be considered
incidental to Item No.
606.9100, Guard Rail
Connection at Ulehawa
Stream Bridge. For Details
see Plan Sht. No. 16

**CONSTRUCTION NOTES BY
ADDENDUM NO. 1**

- Install 75± L.F. New Steel Beam Rail with W beam end section (rounded) on inside of New Metal Guard Rail, Type 3, Single w/ Steel Post and Spacer Block at # Sta. 98+50± to # Sta. 99+25± Lt. Payment shall be incidental to Item No. 606.3110 Guard Rail, Type 3-Single with Steel Post and Spacer Block.
- Install 75± L.F. New Steel Beam Rail with W beam end section (rounded) on inside of Reconstructed Metal Guard Rail at # Sta. 100+23± to # Sta. 100+98± Lt. Payment shall be incidental to Item No. 633.1000 Reconstructed Guard Rail, Type 3-Single.
- 8'-0" Steel Post shall be considered as standard 6'-0" Steel Post for payment purposes. Therefore Furnishing and installing 8'-0" Steel Post and Spacer Block shall be paid for under Item No.

Sta. 97+95± to # Sta. 98+33± Rt.
Remove 38± L.F. Exist. Metal Guard
Rail. Install BCT

Sta. 98+33± to # Sta. 99+25± Rt.
Exist. Metal Guard Rail to Remain

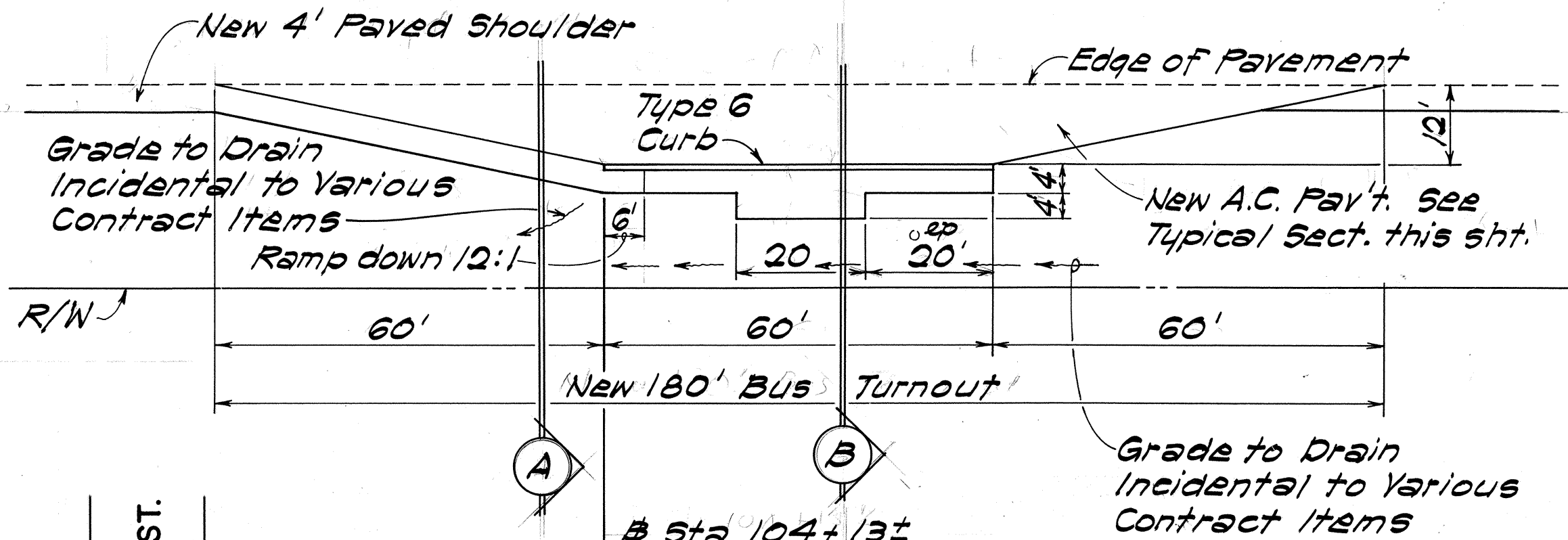
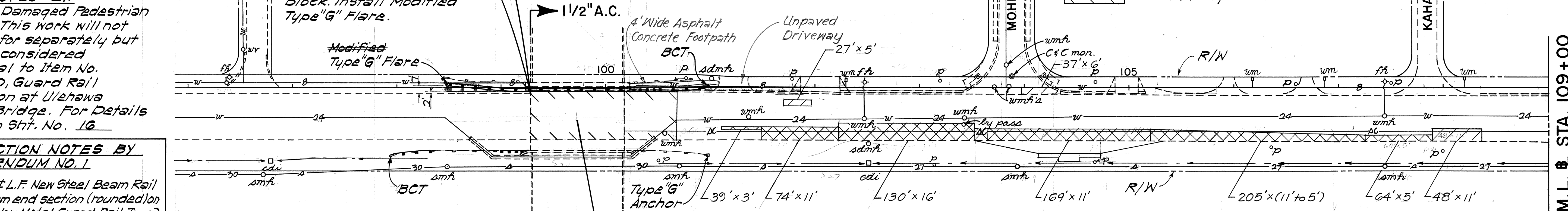
Sta. 99+00± to # Sta. 99+25± Rt.
Install 4 Additional New 8'-0" Steel
Post & Spacer Block at 3'-1 1/2" o.c.

606.3440 Furnishing and Installing Steel Post and
Spacer Block for Guard Rail.

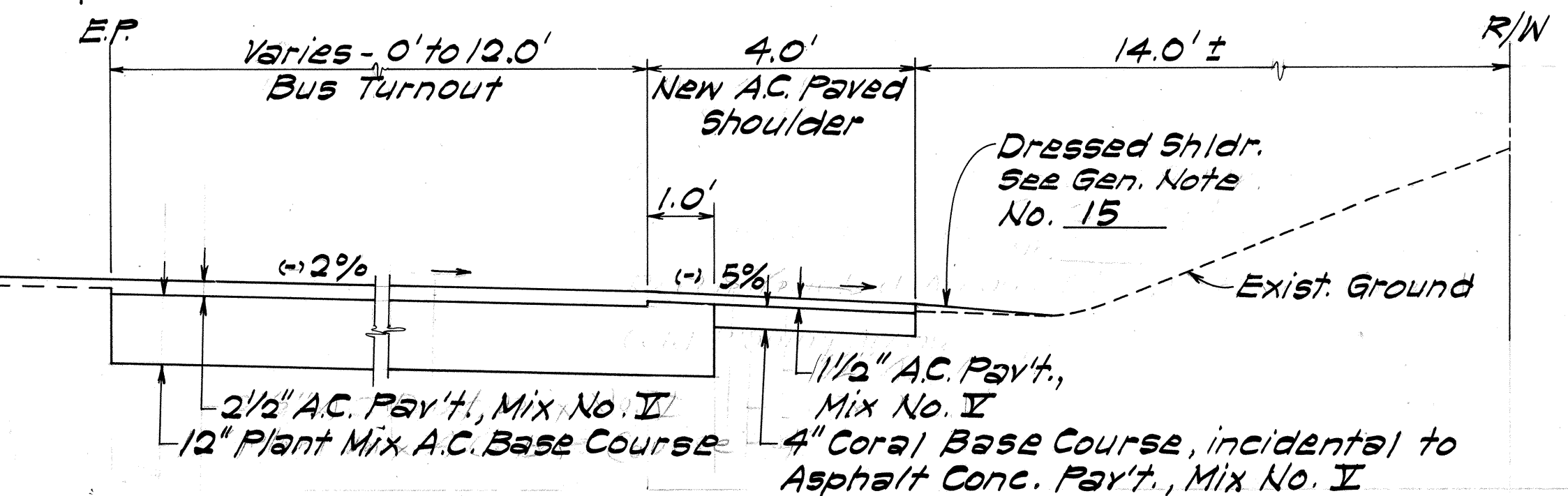
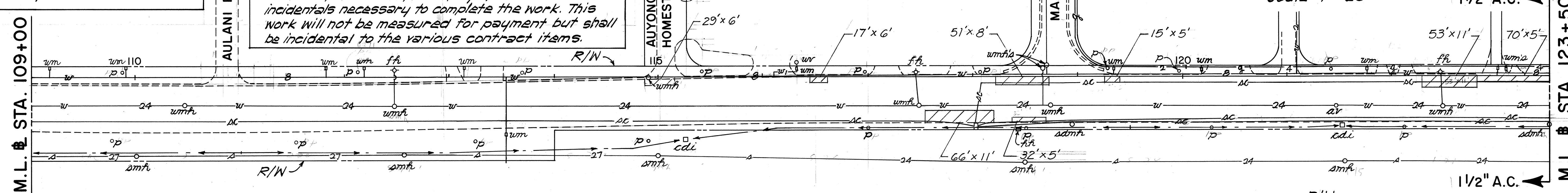
(d) Construct 100± L.F. New Asphalt Concrete Footpath
with 3" Untreated Base and 2" Asphalt Concrete
Pavement Mix No. I at # Sta. 100+40± to # Sta.
101+40± Lt. This work shall include furnishing
all labor, materials, tools, equipment and
incidentals necessary to complete the work. This
work will not be measured for payment but shall
be incidental to the various contract items.

LEGEND

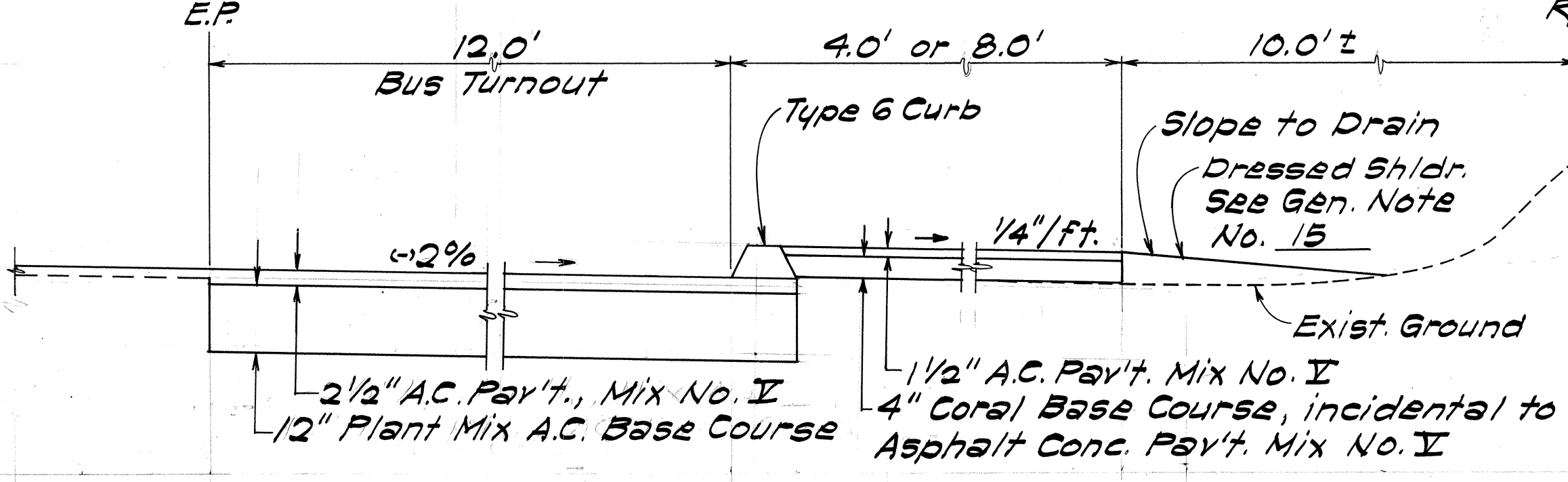
- Reconstructed Areas, 4 3/4" A.C.B.
- Reconstructed Areas, 8 1/2" A.C.B.
- Cold Planing Areas



PLAN - BUS TURNOUT
Scale: 1"=20'



TYPICAL PAVEMENT SECTION "A" AT BUS TURNOUT
Scale: 1/2"=1'-0"



TYPICAL PAVEMENT SECTION "B" AT BUS TURNOUT
Scale: 1/2"=1'-0"

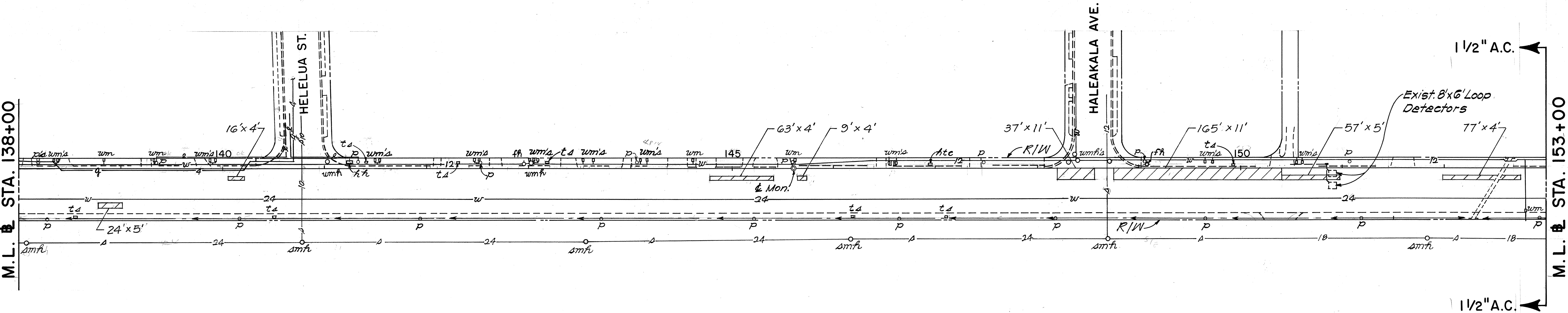
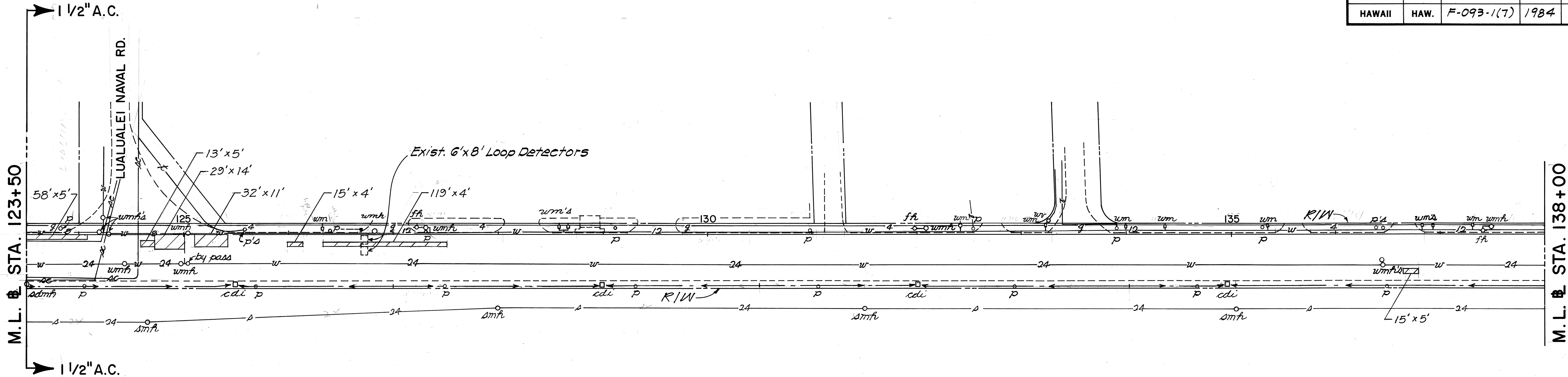
APPROVED: *R. H. H. H.*
FOR CHIEF, PLANNING & ENGINEERING, BWS DATE 4-2-84

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN

FARRINGTON HWY. RESURFACING
VIC. OF ULEHAWA STR. BR. TOW. PULIOKOE BR.
F.A. PROJ. NO. F-093-1(7)
Scale: 1"=50' Date: Feb., 1984
SHEET NO. 1 OF 5 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-093-1(7)	1984	7	39



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

APPROVED:

R. Hargrave
CHIEF, PLANNING & ENGINEERING, BWS DATE 4-3-84

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN
FARRINGTON HWY. RESURFACING
VIC. OF ULEHAWA STR. BR. TON. PILIOKOE BR.
F.A. PROJ. NO. F-093-1(7)
Scale: 1"=50' Date: Feb, 1984
SHEET NO. 2 OF 5 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-093-1(7)	1984	8	39

Sta. 154+80± to # Sta. 155+30± Lt.
Reconstruct 50 ± L.F. Exist. Metal Guard Rail.

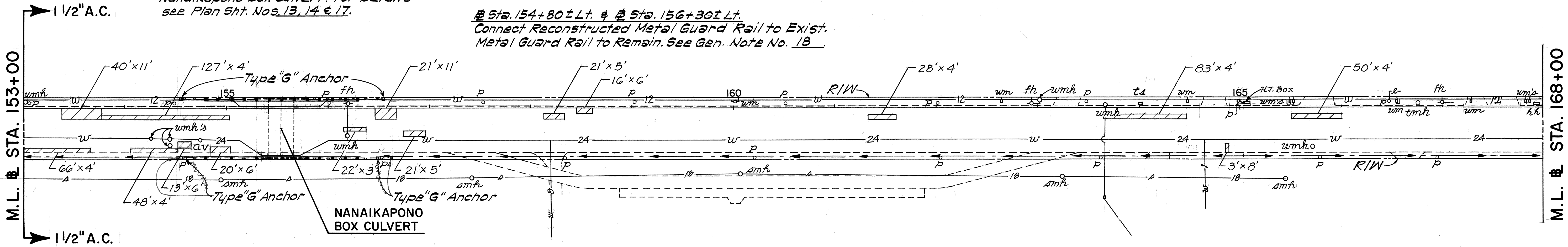
Sta. 154+55± Lt. & # Sta. 156+55± Lt.
Install Type "G" Anchor

Sta. 155+80± to # Sta. 156+30± Lt.
Reconstruct 50 ± L.F. Exist. Metal Guard Rail. Install 4 Additional New Steel Post and Spacer Block at 3'-1/2" o.c. from # Sta. 155+80± to # Sta. 156+05± Lt.

Nanaikapono Box Culvert # Sta. 155+55±
Install Metal Guard Rail Connection to Nanaikapono Box Culvert. For Details see Plan Sht. Nos. 13, 14 & 17.

Sta. 154+55± to # Sta. 154+80± Lt.
Sta. 156+30± to # Sta. 156+55± Lt.
Existing Metal Guard Rail to Remain

Sta. 154+80± Lt. & # Sta. 156+30± Lt.
Connect Reconstructed Metal Guard Rail to Exist. Metal Guard Rail to Remain. See Gen. Note No. 18.



Sta. 154+80± to # Sta. 155+30± Rt.
Reconstruct 50 ± L.F. Exist. Metal Guard Rail. Install 4 Additional New Steel Post and Spacer Block at 3'-1/2" o.c. from # Sta. 155+10± to # Sta. 155+35± Rt.

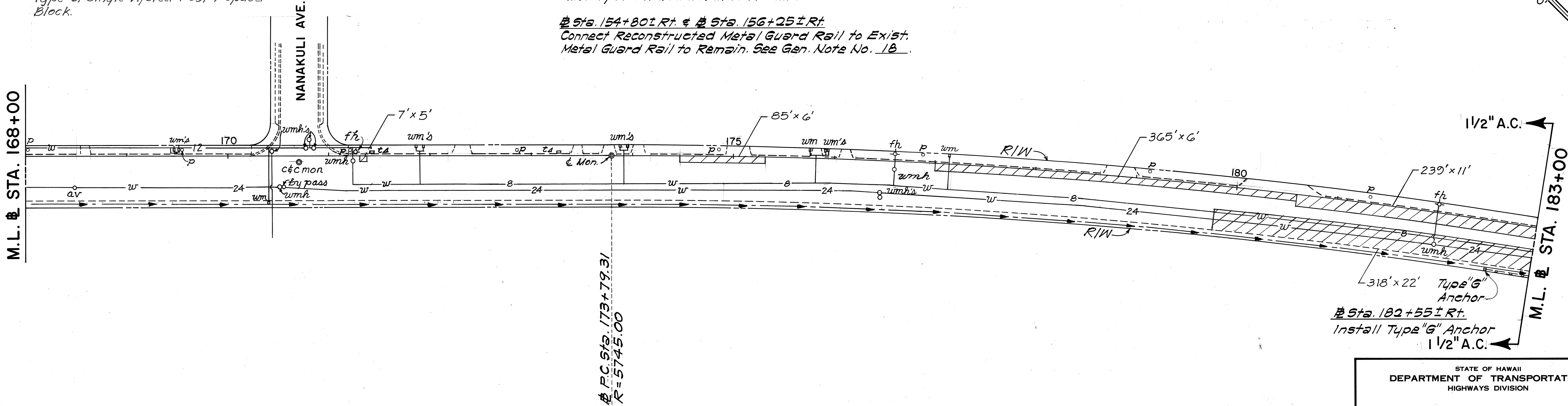
Sta. 154+55± to # Sta. 154+80± Rt.
Install 25 L.F. New Metal Guardrail, Type 3, Single w/Steel Post & Spacer Block.

Sta. 155+75± to # Sta. 156+25± Rt.
Reconstruct 50 ± L.F. Exist. Metal Guard Rail.
Sta. 154+55± Rt. & # Sta. 156+50± Rt.
Install Type "G" Anchor

Sta. 156+50± to # Sta. 156+62.5± Rt.
Install 12.5 L.F. New Metal Guardrail, Type 3, Single w/Steel Post & Spacer Block.

Sta. 154+55± to # Sta. 154+80± Rt.
Sta. 156+25± to # Sta. 156+50± Rt.
Existing Metal Guard Rail to Remain

Sta. 154+80± Rt. & # Sta. 156+25± Rt.
Connect Reconstructed Metal Guard Rail to Exist. Metal Guard Rail to Remain. See Gen. Note No. 18.



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

APPROVED:
for *R. Magato*
CHIEF, PLANNING & ENGINEERING, BWS DATE 4-3-84

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN

FARRINGTON HWY. RESURFACING
VIC. OF ULEHAWA STR. BR. TOW. PILIOKOE BR.
F.A. PROJ. NO. F-093-1(7)
Scale: 1"=50' Date: Feb., 1984
SHEET No. 3 OF 5 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-093-1(7)	1984	9	39

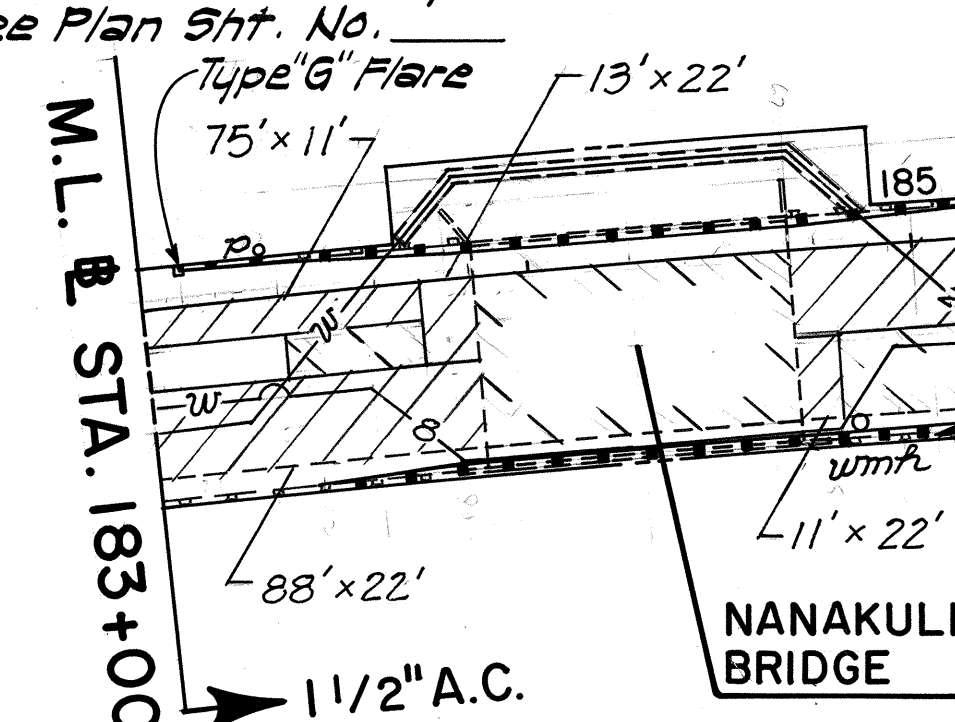
APPROVED:

R. J. [Signature]
CHIEF, PLANNING & ENGINEERING, BWS DATE 4-3-84

Sta. 183+10± Lt. & # Sta. 185+42± Lt.
Install Type "G" Flare

Sta. 183+10± to # Sta. 183+85± Lt.
Reconstruct 75± L.F. Exist. Metal Guard Rail.
*Exist. Steel Post to be Cut at top of Exist. Conc. Wall & Replaced w/ New Steel Post.

Sta. 183+35± to # Sta. 185+19±
Cold Plane 548± Sq. Yd. For Details see Plan Sht. No.



Nanakuli Str. Bridge # Sta. 184+25±
Install Metal Guard Rail Connection to Nanakuli Str. Bridge. For Details see Plan Sht. Nos. 13, 14 & 17.

Sta. 184+67± to # Sta. 185+42± Lt.
Reconstruct 75± L.F. Exist. Metal Guard Rail. Install 4 Additional New Steel Post and Spacer Block at 3'-1 1/2" oc. from # Sta. 184+67± to # Sta. 184+92± Rt.

*Exist. Steel Post to be Cut at top of Exist. Conc. Wall & Replaced w/ New Steel Post.

*1. Posts for Reconstructed Guard Rail shall be placed in new location in front of the existing CRM Wall. Reconstructed Guard Rail to be connected to existing Guard Rail to remain.

2. Portions of the CRM Wall shall be removed to allow existing Steel Posts to be cut 1 1/2" below the existing top of CRM Wall. CRM Wall shall be restored and covered with mortar.

3. All the above work will not be paid for separately but shall be incidental to Reconstructed Guard Rail.

Sta. 182+55± to # Sta. 183+42± Rt.
Existing Metal Guard Rail to Remain

Sta. 183+42± to # Sta. 183+80± Rt.
Reconstruct 38± L.F. Exist. Metal Guard Rail. Install 4 Additional New Steel Post and Spacer Block at 3'-1 1/2" oc. from # Sta. 183+55± to # Sta. 183+80± Rt.

Sta. 184+75± to # Sta. 185+50± Rt.
Remove 75± L.F. Exist. Metal Guard Rail. Install 75± L.F. New Metal Guard Rail, Type 3, Single with Steel Post and Spacer Block. Install Type "G" Flare

Sta. 183+42± Rt., 188+82± Rt., 199+81± Rt., 206+53± Rt., 209+22± Rt., 210+25± Rt. & 210+35± Lt.
Connect Reconstructed Metal Guard Rail to Exist. Metal Guard Rail to Remain. See Gen. Note No. 18.

Box Culvert # Sta. 199+31.50
Install Metal Guard Rail Connection to Exist. Headwall. For Details see Plan Sht. Nos. 13, 15 & 17.

Sta. 206+02± to # Sta. 206+15± Lt.
Install 13± L.F. New Metal Guard Rail, Type 3, Single w/ Steel Post & Spacer Block. New Steel Post installed in front of Exist. CRM Wall. Install Type "G" Flare.

Sta. 206+40± to # Sta. 206+78± Lt.
Reconstruct 38± L.F. Exist. Metal Guard Rail.
*Exist. Steel Post to be Cut at top of Exist. Conc. Wall & Replaced w/ New Steel Post. Install 4 Additional New Steel Post & Spacer Block at 3'-1 1/2" oc. from # Sta. 206+40± to # Sta. 206+65± Lt. Install Type "G" Flare

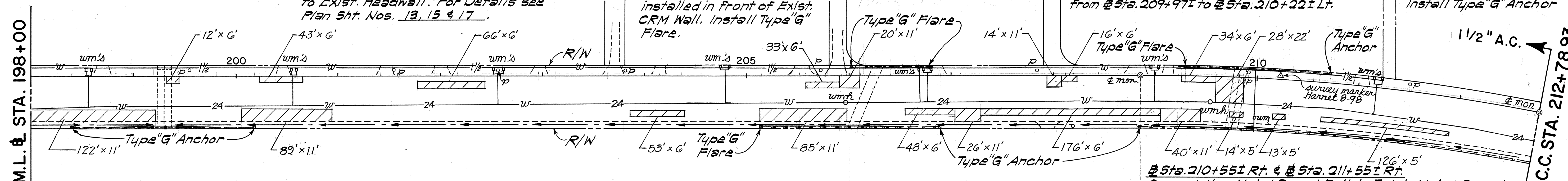
Sta. 209+30± to # Sta. 209+68± Lt.
Reconstruct 38± L.F. Exist. Metal Guard Rail.
*Exist. Steel Post to be Cut at top of Exist. Conc. Wall & Replaced w/ New Steel Post. Install Type "G" Flare.

Box Culvert # Sta. 209+82
Install Metal Guard Rail Connection to Exist. Headwall. For Details see Plan Sht. Nos. 13, 15 & 17.

Sta. 209+97± to # Sta. 210+35± Lt.
Reconstruct 38± L.F. Exist. Metal Guard Rail.
*Exist. Steel Post to be Cut at top of Exist. Conc. Wall & Replaced w/ New Steel Post. Install 4 Additional New Steel Post & Spacer Block at 3'-1 1/2" oc. from # Sta. 209+97± to # Sta. 210+22± Lt.

Sta. 210+35± to # Sta. 210+72± Lt.
Exist. Metal Guard Rail to Remain

Sta. 210+72± Lt.
Install Type "G" Anchor



Sta. 198+40± Rt. & # Sta. 200+18± Rt.
Install Type "G" Anchor

Sta. 198+40± to # Sta. 198+82± Rt.
Sta. 199+81± to # Sta. 200+18± Rt.
Existing Metal Guard Rail to Remain

Sta. 198+82± to # Sta. 199+20± Rt.
Reconstruct 38± L.F. Exist. Metal Guard Rail. Install 4 Additional New Steel Post and Spacer Block at 3'-1 1/2" oc. from # Sta. 198+95± to # Sta. 199+20± Rt.

Sta. 199+43± to # Sta. 199+81± Rt.
Reconstruct 38± L.F. Exist. Metal Guard Rail.

Sta. 205+15± to # Sta. 205+52± Rt.
Remove 37± L.F. Exist. Metal Guard Rail. Install 37± L.F. New Metal Guard Rail, Type 3, Single with Steel Post & Spacer Block. Install Type "G" Flare

Sta. 205+52± to # Sta. 205+90± Rt.
Reconstruct 38± L.F. Exist. Metal Guard Rail. Install 4 Additional New Steel Post & Spacer Block at 3'-1 1/2" oc. from # Sta. 205+65± to # Sta. 205+90± Rt.

Box Culvert # Sta. 206+25
Install Metal Guard Rail Connection to Exist. Headwall. For Details see Plan Sht. Nos. 13, 15 & 17.

Sta. 206+15± to # Sta. 206+53± Rt.
Reconstruct 38± L.F. Exist. Metal Guard Rail

Sta. 206+53± to # Sta. 206+90± Rt.
Exist. Metal Guard Rail to Remain

Sta. 206+90± Rt.
Install Type "G" Anchor

Sta. 208+85±
Install Type "G" Anchor

Sta. 208+85± to # Sta. 209+22± Rt.
Sta. 210+25± to # Sta. 210+55± Rt.
Exist. Metal Guard Rail to Remain

Sta. 210+55± Rt. & # Sta. 211+55± Rt.
Connect New Metal Guard Rail to Exist. Metal Guard Rail to Remain. See Gen. Note No. 18.
Sta. 209+22± to # Sta. 209+60± Rt.
Reconstruct 38± L.F. Exist. Metal Guard Rail. Install 4 Additional New Steel Post & Spacer Block at 3'-1 1/2" oc. from # Sta. 209+35± to # Sta. 209+60± Rt.

Sta. 209+87± to # Sta. 210+25± Lt.
Reconstruct 38± L.F. Exist. Metal Guard Rail

Sta. 210+55± to # Sta. 211+55± Rt.
Install 100± L.F. New Metal Guard Rail, Type 3, Single w/ Steel Post & Spacer Block

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN

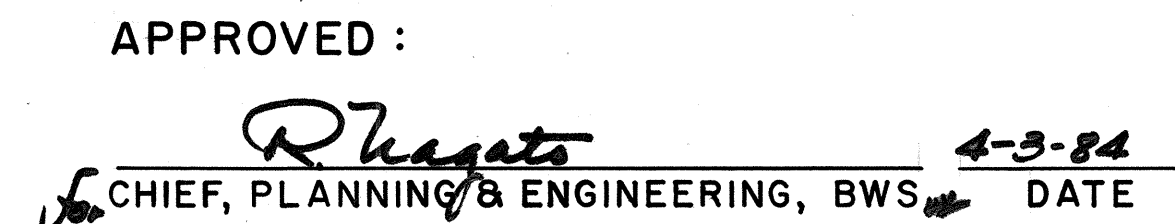
FARRINGTON HWY. RESURFACING
VIC. OF ULEHAWA STR. BR. TON. PILIOKOE BR.
F.A. PROJ. NO. F-093-1(7)

Scale: 1" = 50' Date: Feb. 1984

SHEET No. 4 OF 5 SHEETS

ORIGINAL PLAN	DATE
DESIGNED BY	
TRACED BY	
NOTED BY	
CHECKED BY	

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



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN

FARRINGTON HWY. RESURFACING
VIC. OF ULEHAWA STR. BR. TOW. PILIOKOE BR.
F.A. PROJ. NO. F-093-1(7)

Scale: 1" = 50' Date: Feb., 1984

SHEET No. 5 OF 5 SHEETS

ADD. TOR