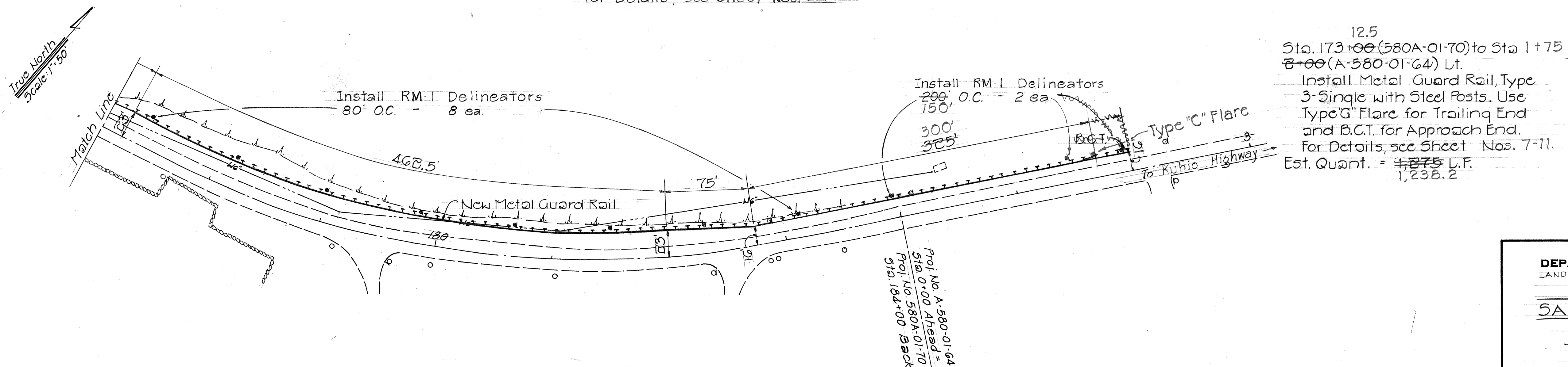
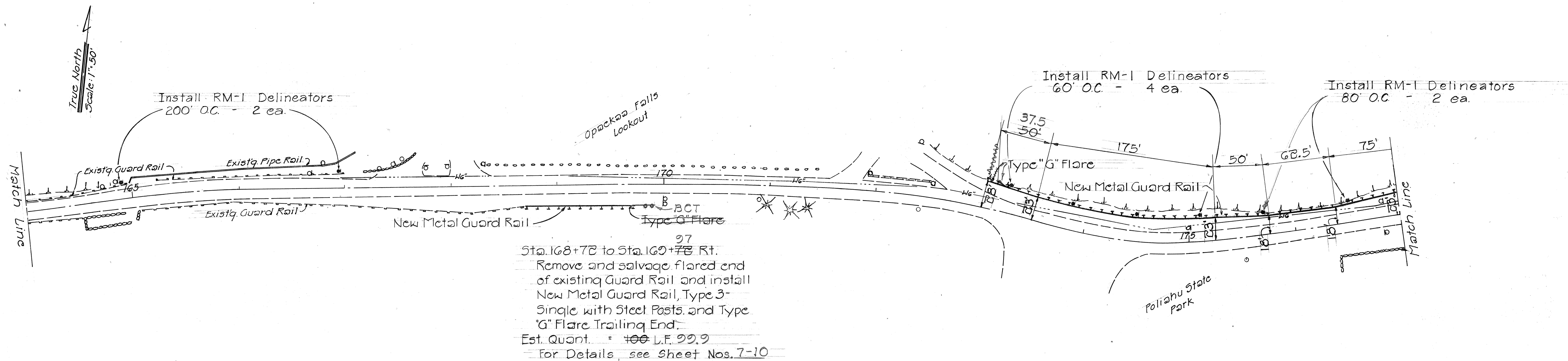
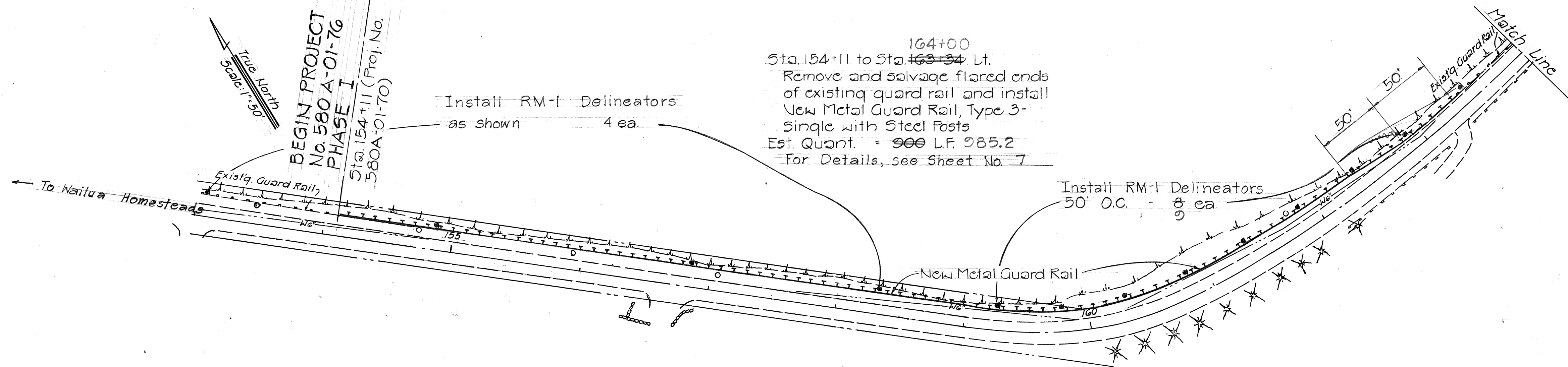


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	580-A-01-76 PHASE I	1979	2	11



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

KUAMOO ROAD
SAFETY IMPROVEMENTS

PROJ. No. 580A-01-76
PHASE I
PLAN

Scale: As Shown Sept. 1978
SHEET No. 1 OF 3 SHEETS

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

GENERAL NOTES:

1. All Stations refer to Kuamoo Road, Project Nos. 580A-01-70, A-580-01-64 Phase I and A-580-01-64 Phase II
2. The Contractor shall leave at least one lane open to traffic during working hours and both lanes open to traffic during non-working hours.
3. The work necessary in providing the end connections to Opaekea Bridge and to CRM Retaining Walls shall include all materials and equipment necessary to complete the work. This work will not be measured or paid for separately but shall be considered incidental to Guard Rail, Type 3-Single with Steel Posts.
4. Guard Rail Connection to Bridge End Posts shall be in accordance to "Standard Details, Metal Guard Rail Connection at Vertical Face Type End Post." Any damage to portion of the structure which are to remain in place shall be repaired at the Contractors expense to the satisfaction of the Engineer.
5. Provide smooth transition from existing guard rail to New Guard Rail installation. Adjust placement of existing guard rail if necessary to accomplish smooth transition. Adjustment will be determined in the field by the Engineer.
6. Guard Rail Posts shall be 8'-0" long where shoulders are less than 2'-0" wide from the face of the guard rail, otherwise shall all be in accordance with the requirements in the "Standard Details".
7. The work necessary in removing and salvaging shall include hauling and stockpiling the existing guard rails, posts and hardware. These items of work will not be measured or paid for directly but shall be considered incidental to "Guard Rail, Type 3-Single with Steel Posts".
8. The location of 6" Water Main shown on the Plan is approximate only. The Contractor shall verify the location of all Pipelines prior to construction. Any pipelines broken because of the Contractors operations shall be repaired at the Contractors own expense.

Sta. 3+80 to Sta. 4+30 ~Lt.
Remove and Salvage Flared End of existing Guard Rail and install New Metal Guard Rail Type "F" Flare Trailing End. End Guard Rail against cut bank.
Est. Quant. = 50 L.F. 37.5
For Details, see sheet No. 10

Sta. 4+38 to 8+25 ~Lt.
Install RM-1 Delineators
65' o.c. 7 ea.

Sta. 8+10 to Sta. 10+25 Lt.
Remove and Salvage 37.5' of existing Guard Rail w/ Cone Posts and install New Metal Guard Rail, Type 3-Single w/ Steel Posts and Special End Shoes. Build up end portion of existing Retaining Walls and connect End Shoes. For Details, see Sheet No. 5
Est. Quant. = 225.0 L.F.
212.7

Sta. 10+10 to Sta. 13+31 ~Lt.
Install RM-1 Delineators
65' o.c. 6 ea.

§ CURVE DATA
Δ = 33° 55' 00"
R = 650.00'
T = 198.81'
C = 379.18'
Lc = 384.77'

§ CURVE DATA
Δ = 36° 06' 00"
R = 550.00'
T = 179.84'
C = 340.83'
Lc = 346.54'

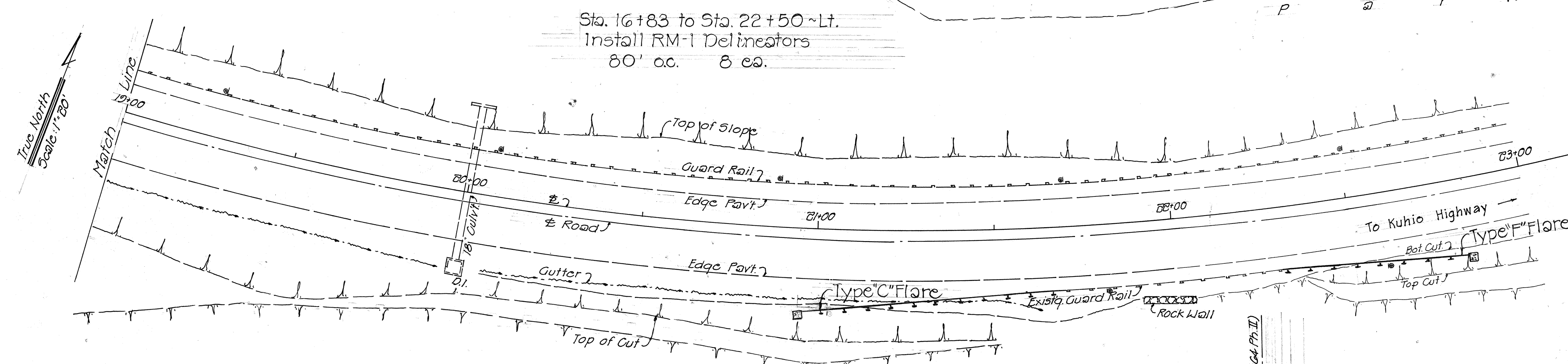
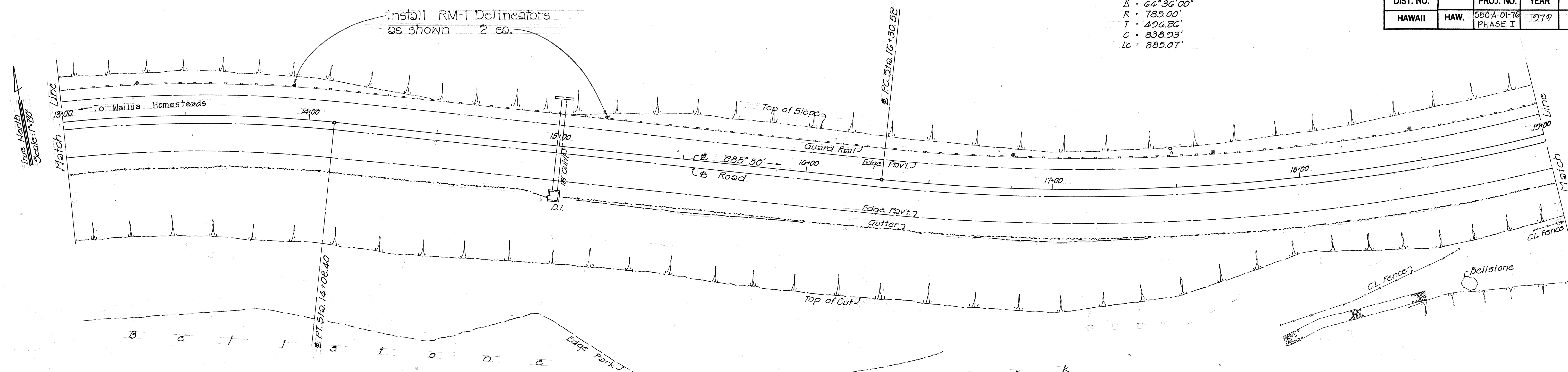
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	580A-01-70 PHASE I	1979	3	11

ORIGINAL PLAN	DATE
DESIGNED BY	
NOTED BY	
CHECKED BY	
NO.	

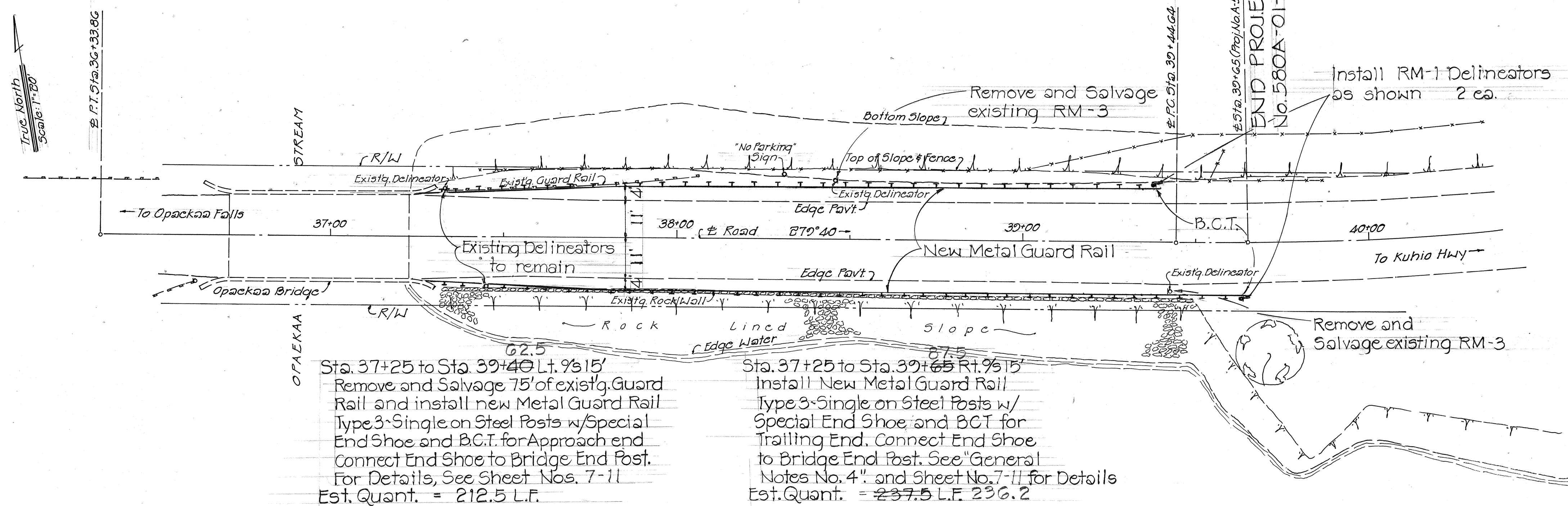
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION
KUAMOO ROAD
SAFETY IMPROVEMENTS
PROJ. No. 580A-01-70
PHASE I
PLAN & GENERAL NOTES
Scale: As Shown
SHEET NO. 2 OF 3 SHEETS
Sept. 1978

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	580A-01-76 PHASE I	1979	4	11

CURVE DATA
 $\Delta = 64^{\circ}36'00''$
 $R = 783.00'$
 $T = 476.86'$
 $C = 838.23'$
 $LC = 885.07'$



Sta. 20+95 to Sta. 22+83 Rt.
 Remove and salvage Flared
 Ends of existing Guard Rail
 and install new Metal Guard
 Rail w/Type "C" and Type "F"
 Flares for Approach and Trailing
 Ends.
 For Details, see sheet Nos. 9-10
 Est. Quant. = 125 L.F. 124.9



Sta. 37+25 to Sta. 39+40 Lt. 9315'
 Remove and Salvage 75' of existg. Guard
 Rail and install new Metal Guard Rail
 Type 3 Single on Steel Posts w/ Special
 End Shoe and B.C.T. for Approach end
 Connect End Shoe to Bridge End Post.
 For Details, See Sheet Nos. 7-11
 Est. Quant. = 212.5 L.F.

Sta. 37+25 to Sta. 39+40 Rt. 9315'
 Install New Metal Guard Rail
 Type 3 Single on Steel Posts w/
 Special End Shoe and B.C.T. for
 Trailing End. Connect End Shoe
 to Bridge End Post. See "General
 Notes No. 4" and Sheet No. 7-11 for Details
 Est. Quant. = 237.5 L.F. 236.2

Install RM-1 Delineators
 as shown 2 ea.

Remove and
 Salvage existing RM-3

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 PHASE I
 PLAN

Scale: As Shown Sept. 1978
 SHEET NO. 3 OF 3 SHEETS