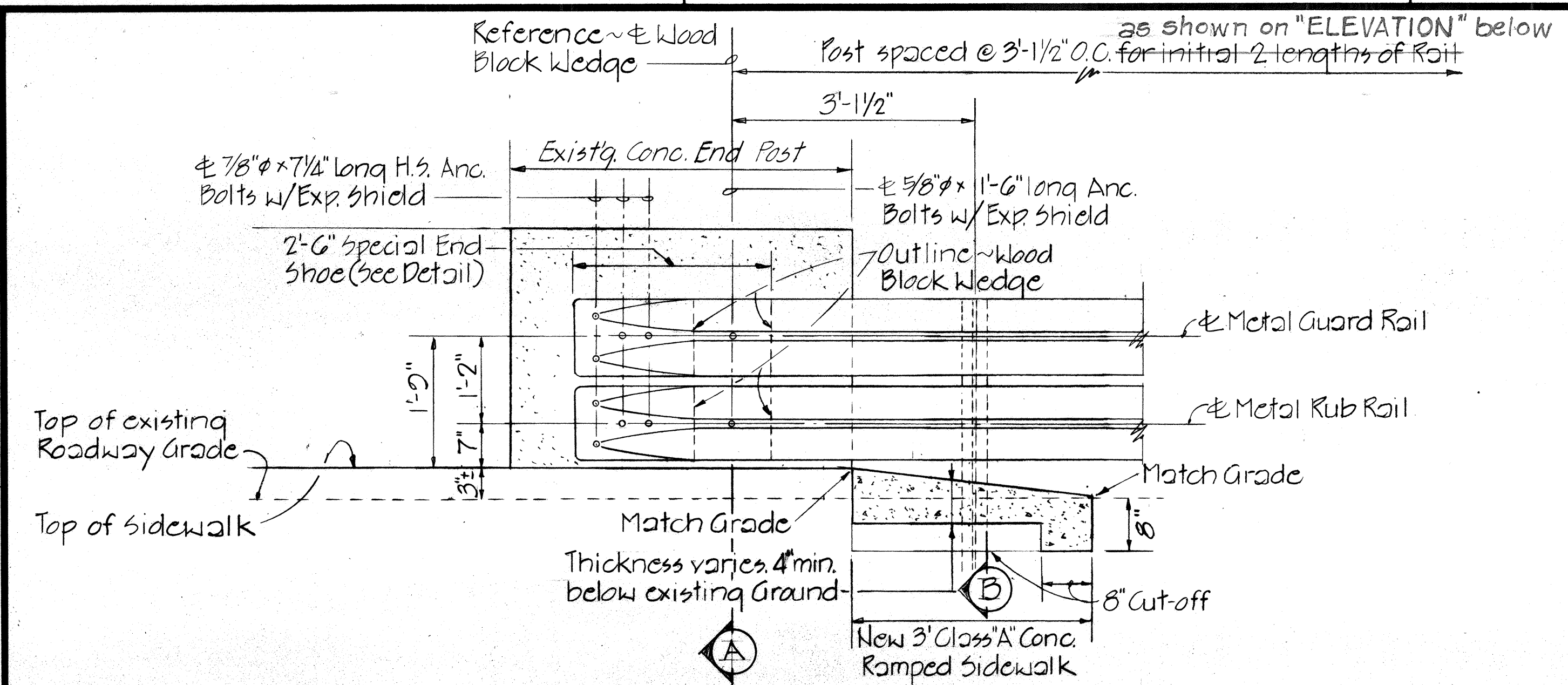
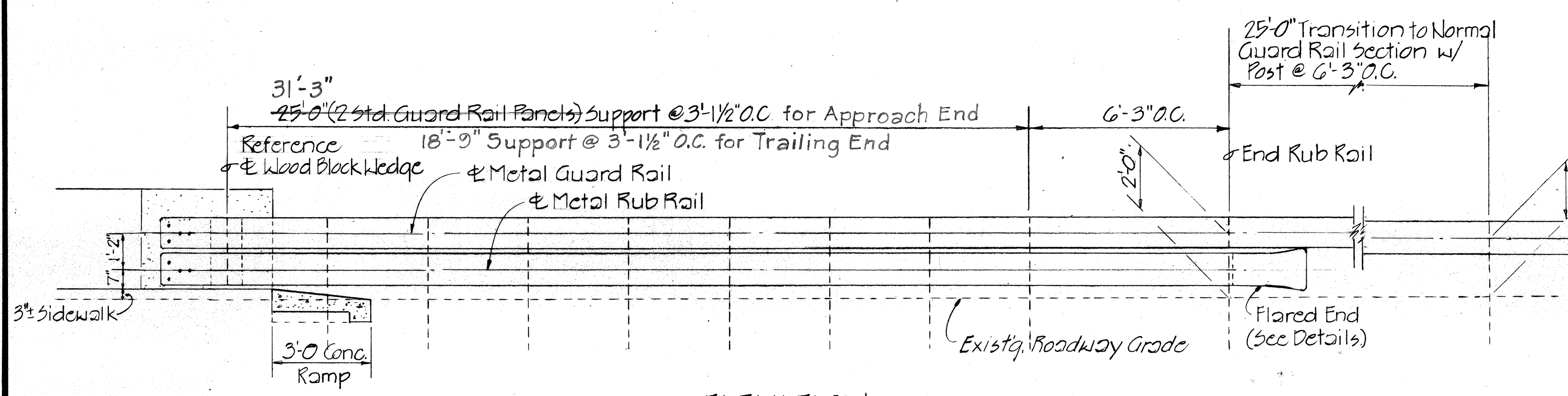


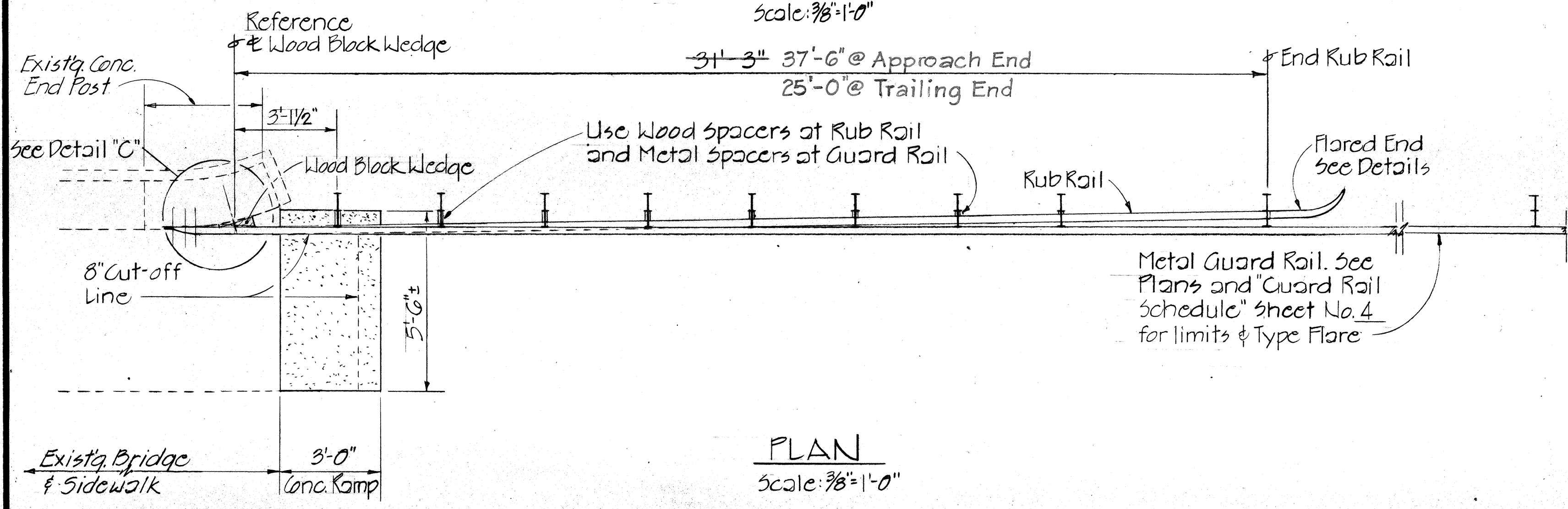
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-K-03-82	1982	5	14



DETAILS ~ TYPICAL CONNECTION OF METAL GUARD RAIL TO EXISTING END POST AND RAMPED SIDEWALK
Scale: 3/4" = 1'-0"

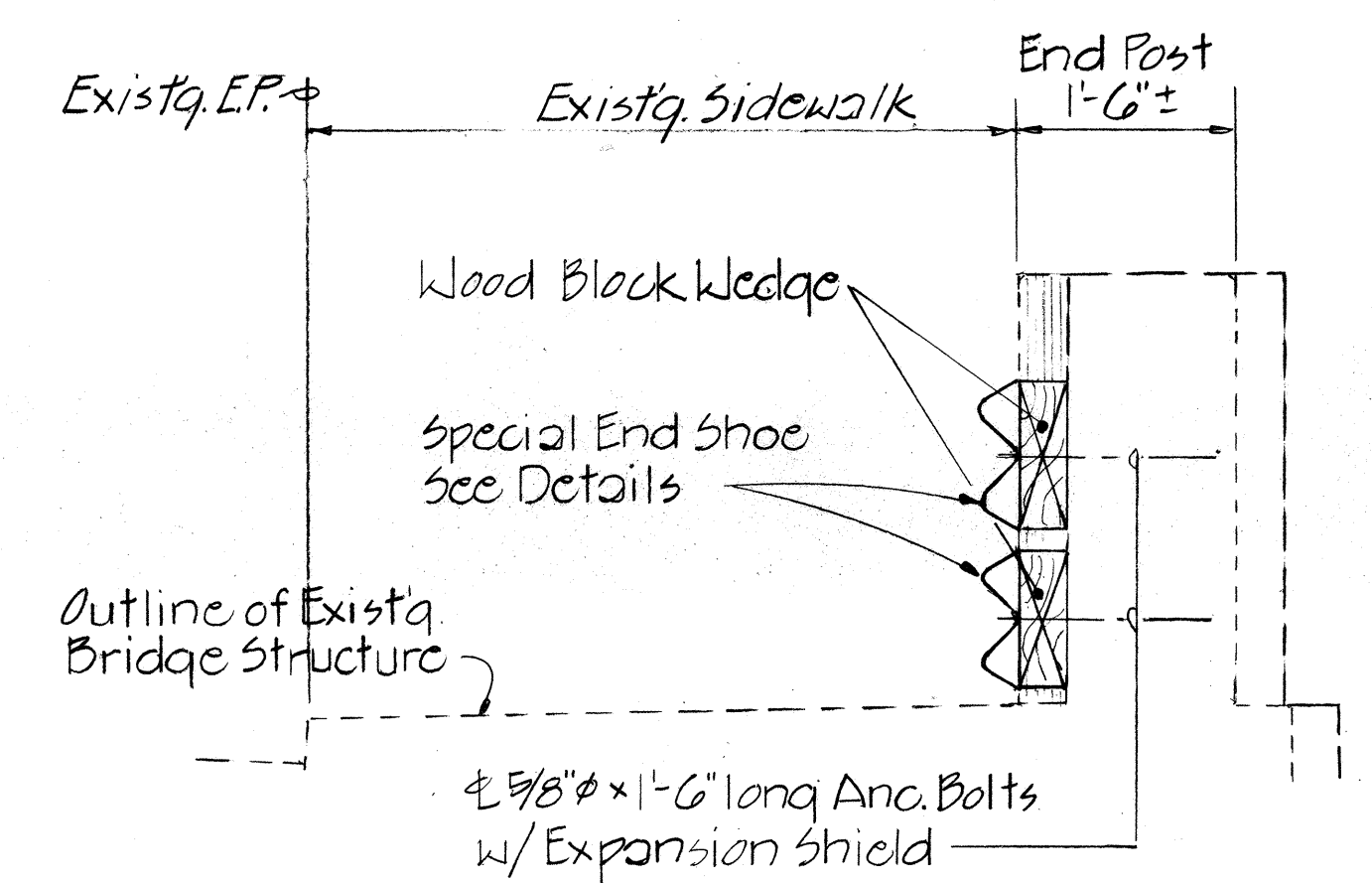


ELEVATION
Scale: 3/8" = 1'-0"

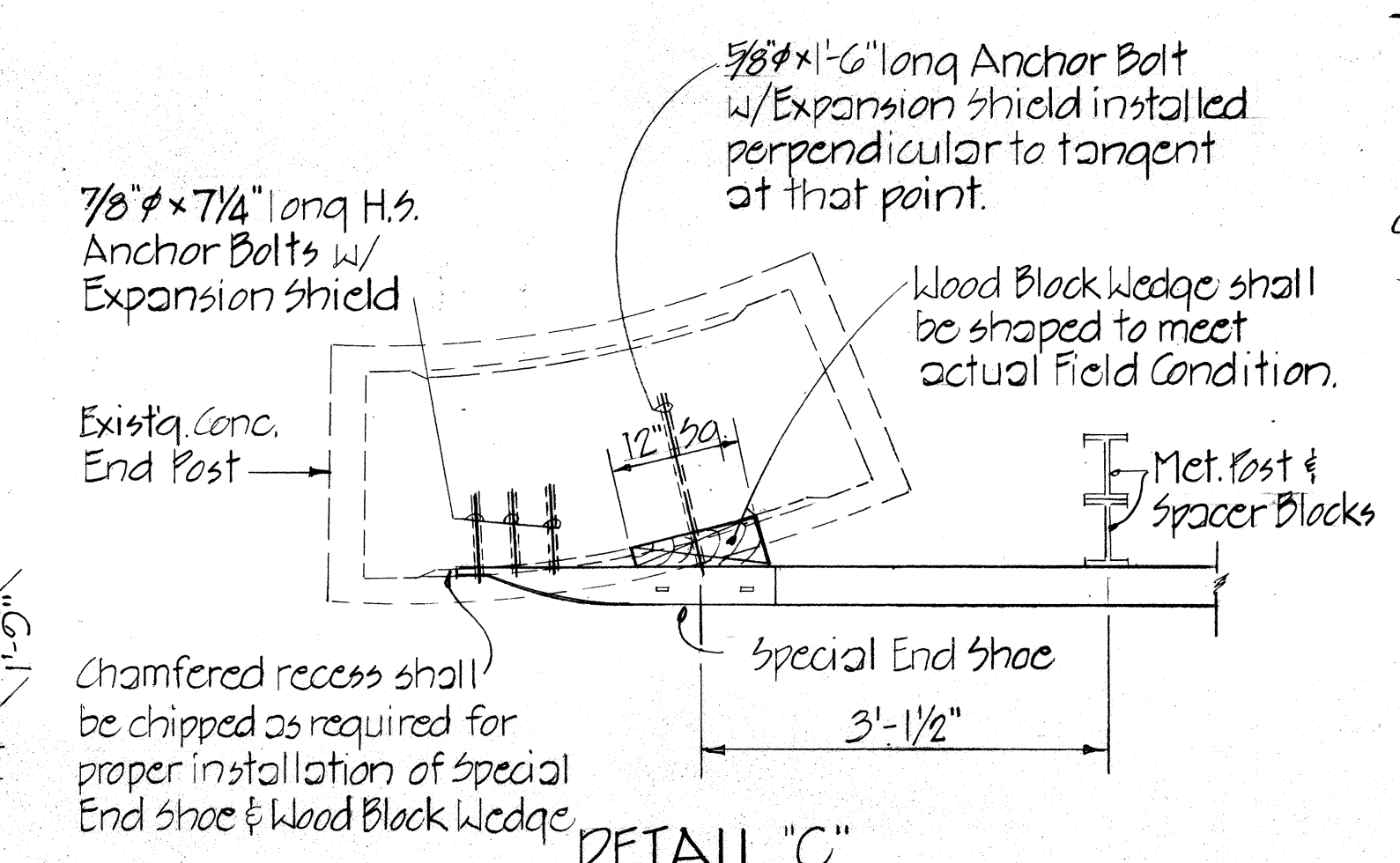


PLAN
Scale: 3/8" = 1'-0"

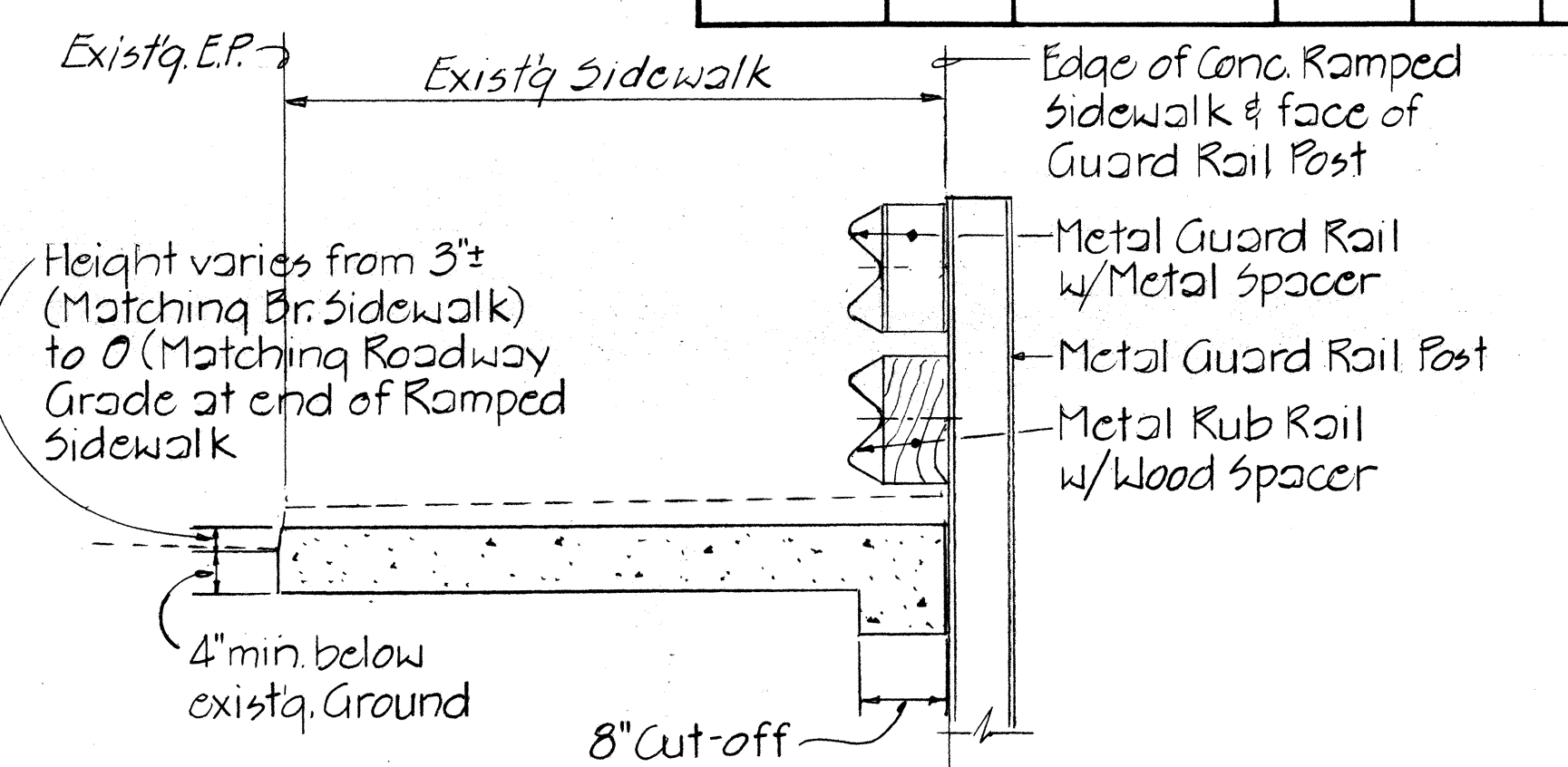
GUARD RAIL CONNECTION TO BRIDGES



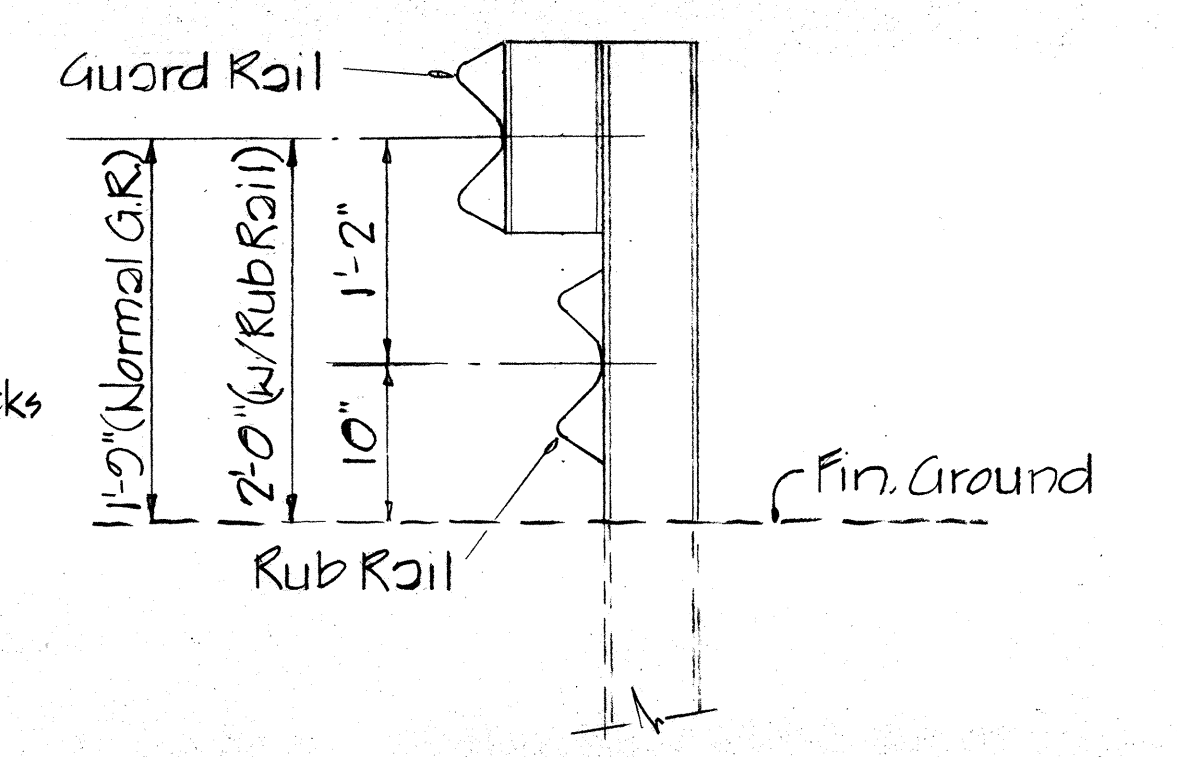
SECTION A
Scale: 3/4" = 1'-0"



DETAIL "C"
SPECIAL END SHOE CONNECTION TO EXISTING CONC. END POST
Scale: 3/4" = 1'-0"



SECTION B
Scale: 3/4" = 1'-0"



TYPICAL GUARD RAIL SECTION
Scale: 1" = 1'-0"

NOTE:

- 1- All anchor bolts shall be high strength bolts conforming to the requirements of A.S.T.M. A-325
- 2- All Anchor Bolts, Nuts, Washers and Steel Plates shall be hot-dip galvanized after fabrication.
- 3- Impact type of drilling of holes through existing conc. end post for anchor bolts will not be permitted.
- 4- Details shown with ramped sidewalk applies only to Kaloopilaui Bridge.
- 5- The work necessary to connect guard rails to bridge end post including constructing ramped sidewalk and installing Redwood Black Wedge where required shall include all labor, materials, tools, equipment and incidentals necessary to complete the work. This work will not be paid for separately, but shall be considered incidental to "Item No. 606.3200."

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION
GUARD RAIL AND SHOULDER IMPROVEMENTS
AT OMAO BRIDGE TO HULEIA BRIDGE & HANAMAULU
PROJ. NO. HWY-K-03-82

DETAILS ~ RUB RAILS

Scale: As shown
Mar. 1982
SHEET NO. 1 OF 1 SHEETS

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