

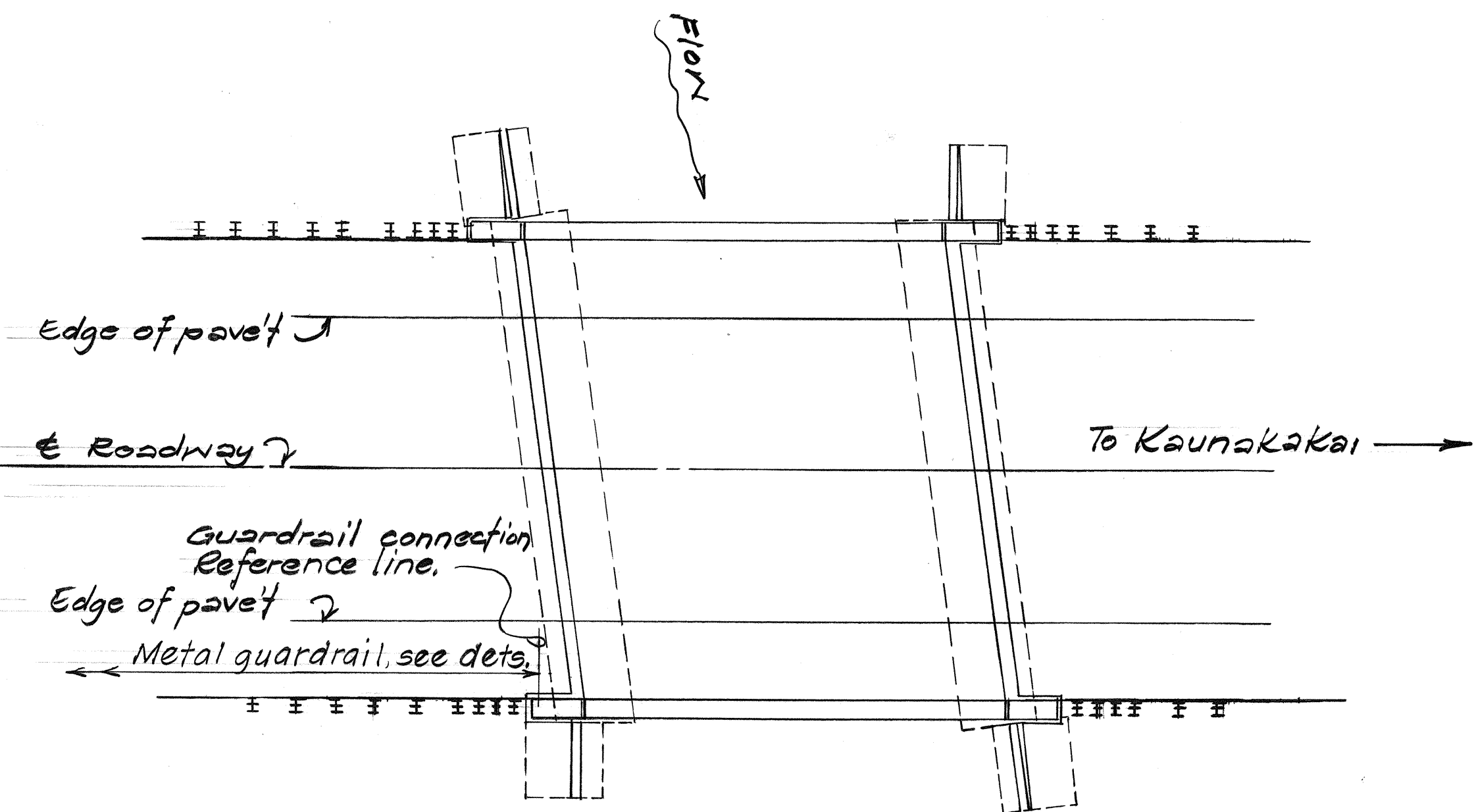
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	460A-01-88	1988	6	6

GENERAL NOTES

- See Standard Specifications for Road and Bridge Construction (Hawaii 1985) and Special Provisions.
- See State of Hawaii, D.O.T. Standard Plans, sht. #TE-50 & TE-51 for details of metal guardrail & "terminal connector".
- All anchor bolts shall be high strength bolts conforming to the requirements of ASTM A325.
- "Terminal Connector" shall be fabricated from 10 gauge steel conforming to the requirements of AASHTO M180.
- All anchor bolts, cap fl, nuts, and washers shall be hot-dip galvanized.
- First 25'-0" of guardrail adjoining "Terminal Connector" shall be of galvanized steel and supports spaced at 1'-6 3/4" for the first 6'-3" and 3'-1 1/2" for the balance.
- Large impacting or vibratory type of equipment will not be permitted in the removal operation of the designated items nor for drilling of holes.
- Any damage to the existing structures due to the Contractor's operation shall be repaired at his expense, to the satisfaction of the Engineer.
- The Contractor shall verify all dimensions in field before commencing with work.
- The Contractor shall verify the location of all existing utility lines near structures and notify their respective owners before commencing with work.

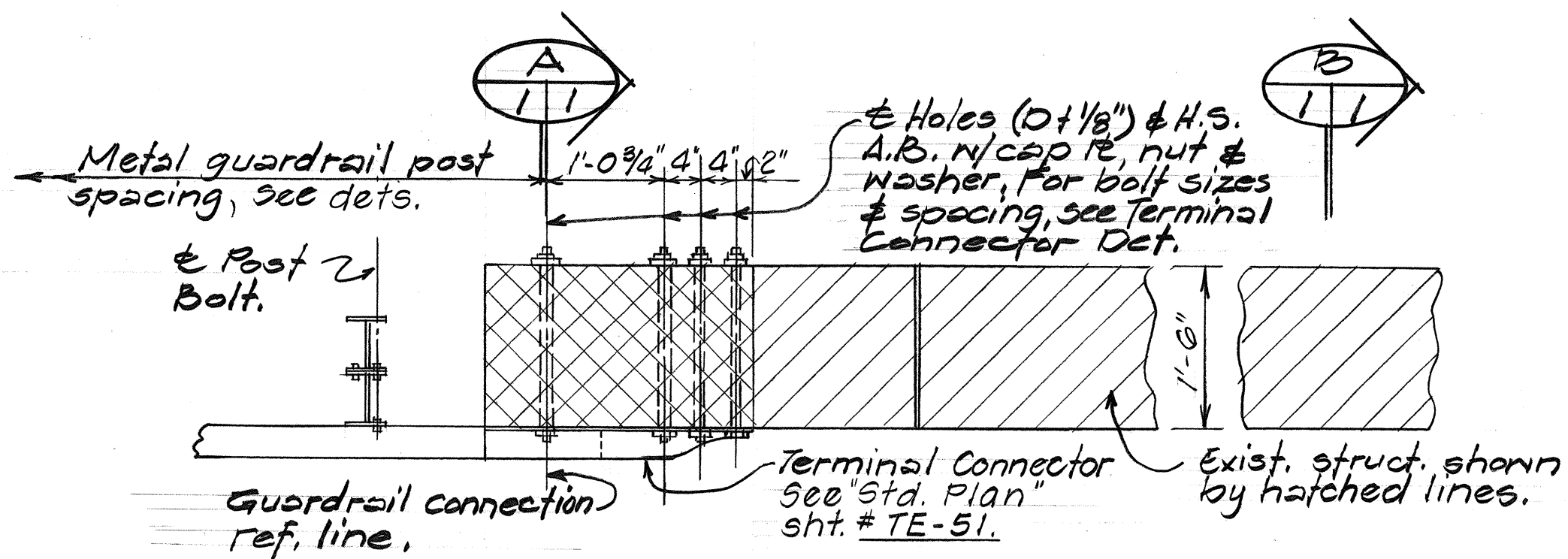
ESTIMATED QUANTITIES

ITEM NO.	ITEM	UNIT	QUANTITY
507.8001	Concrete Rail Build-Up & Connection, Bridge No. 1	Lump Sum	84 L.F.
507.8002	Concrete Rail Build-Up & Connection, Bridge No. 2	Lump Sum	82 L.F.

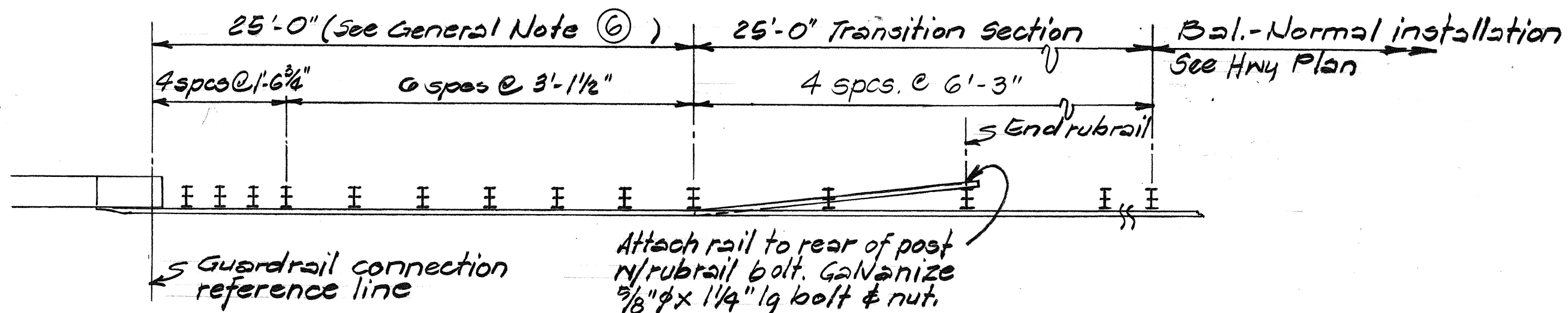


BRIDGE NO. 1 & 2 LAYOUT PLAN

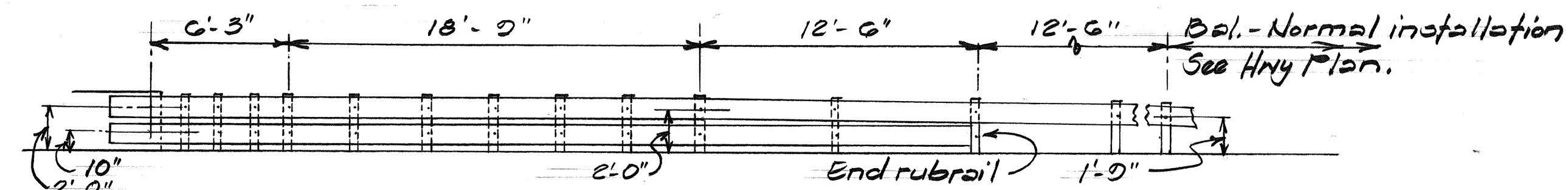
Scale: 1/4" = 10'-0"



PLAN



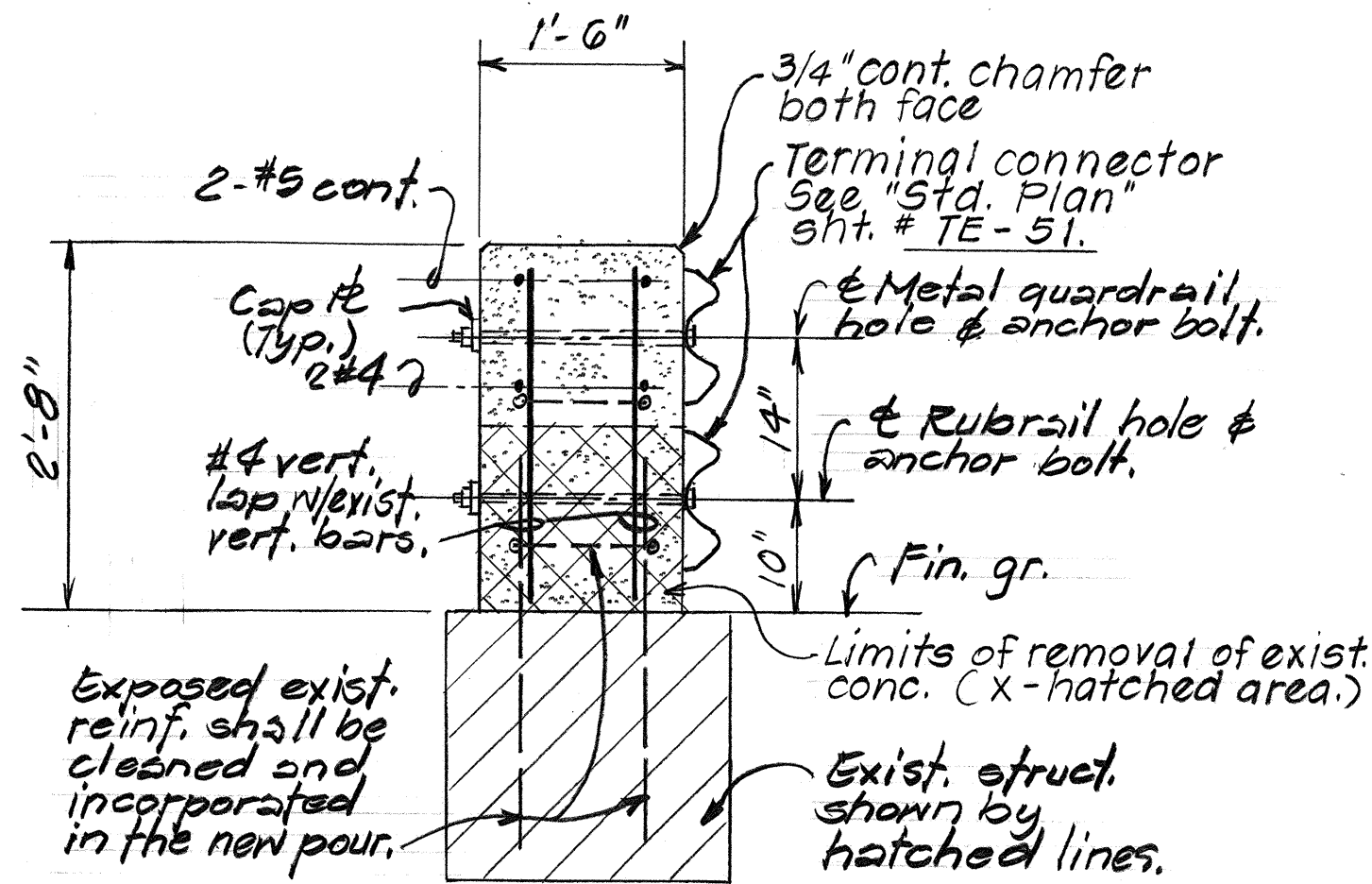
PLAN



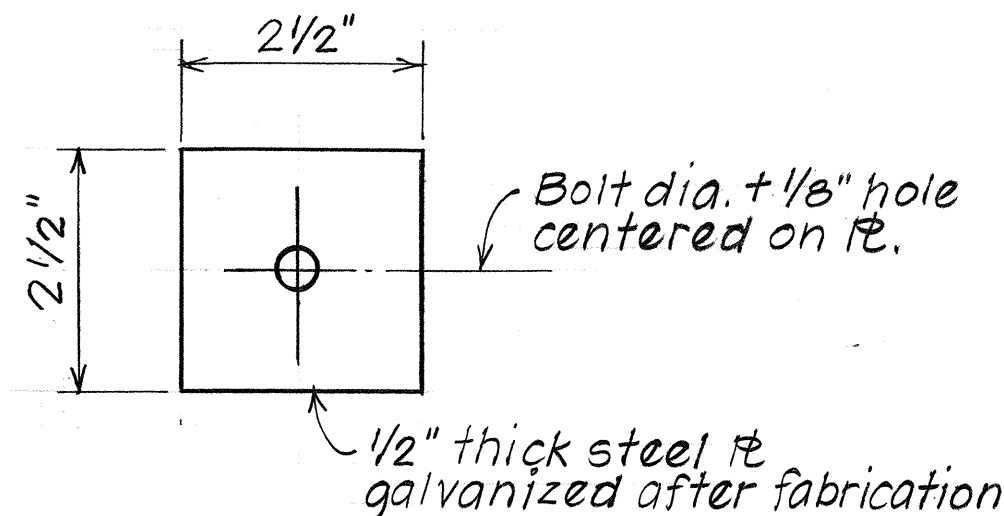
ELEVATION

BEAM TYPE GUARDRAIL WITH RUBRAIL AT END OF CONCRETE END POST

Scale: 3/16" = 1'-0"

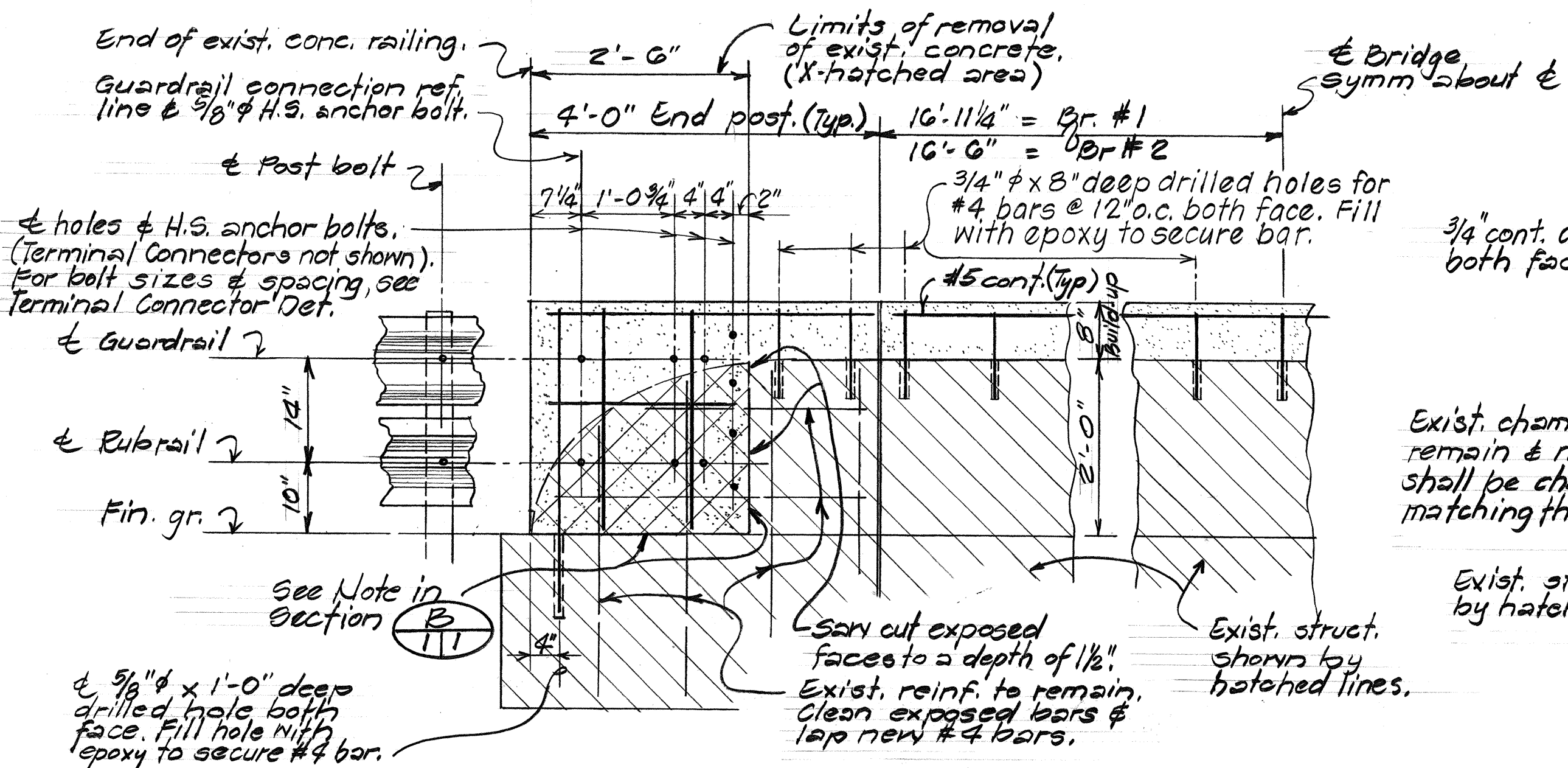


SECTION A-A

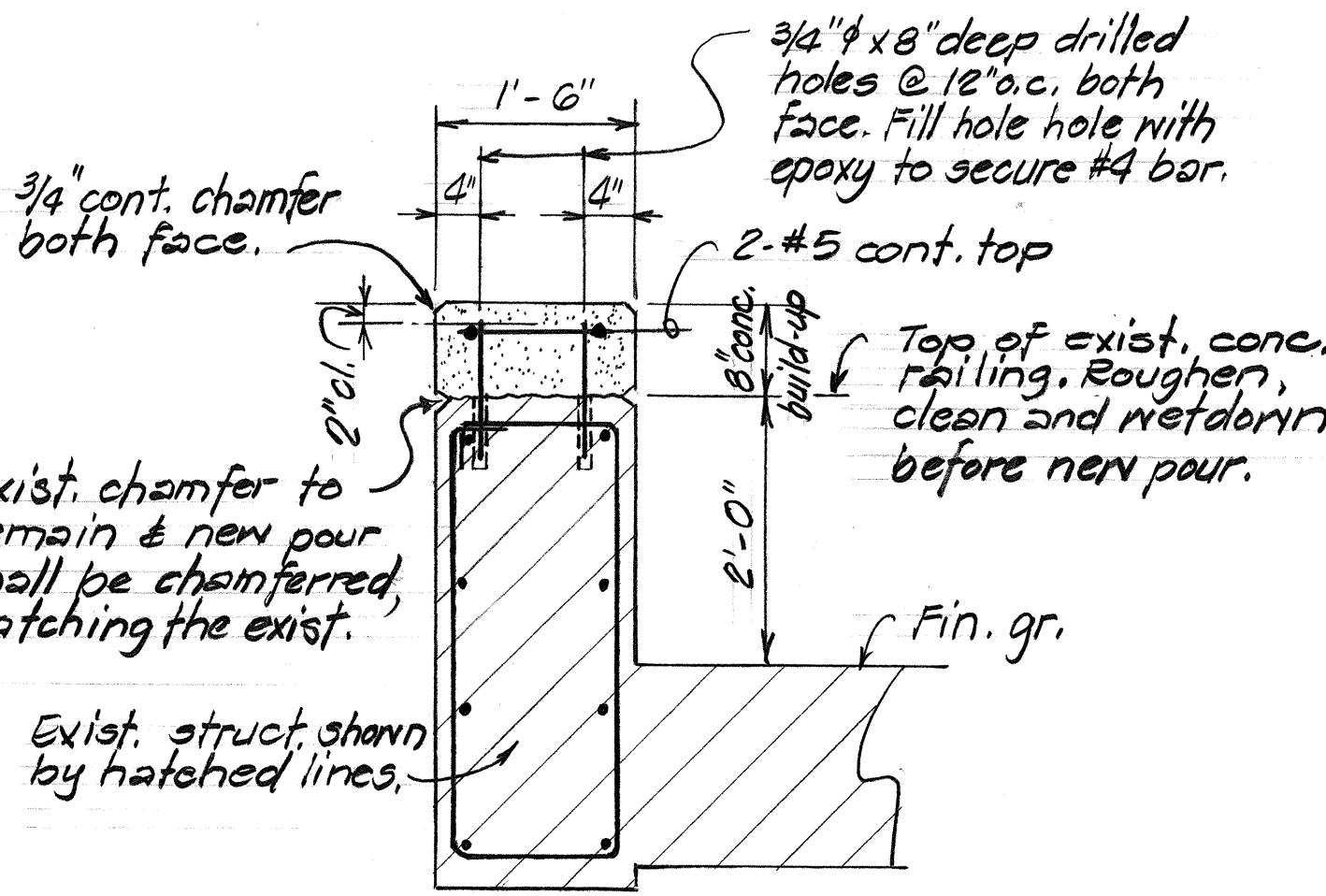


CAP FL DETAIL

Not to Scale



ELEVATION



SECTION B-B

LIMITS OF REMOVAL OF EXISTING END POST AND NEW CONCRETE RAIL BUILD-UP DETAILS

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

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

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
CONCRETE RAIL BUILD-UP & CONNECTION @ KALAMAULA BRIDGE NO. 1 & NO. 2
GUARDRAIL AND SHOULDER IMPROVEMENTS AT VARIOUS LOCATIONS, MOLOKAI PROJECT NO. 460A-01-88
Scale: As Noted Date: April, 1988
SHEET No. 1 OF 1 SHEETS