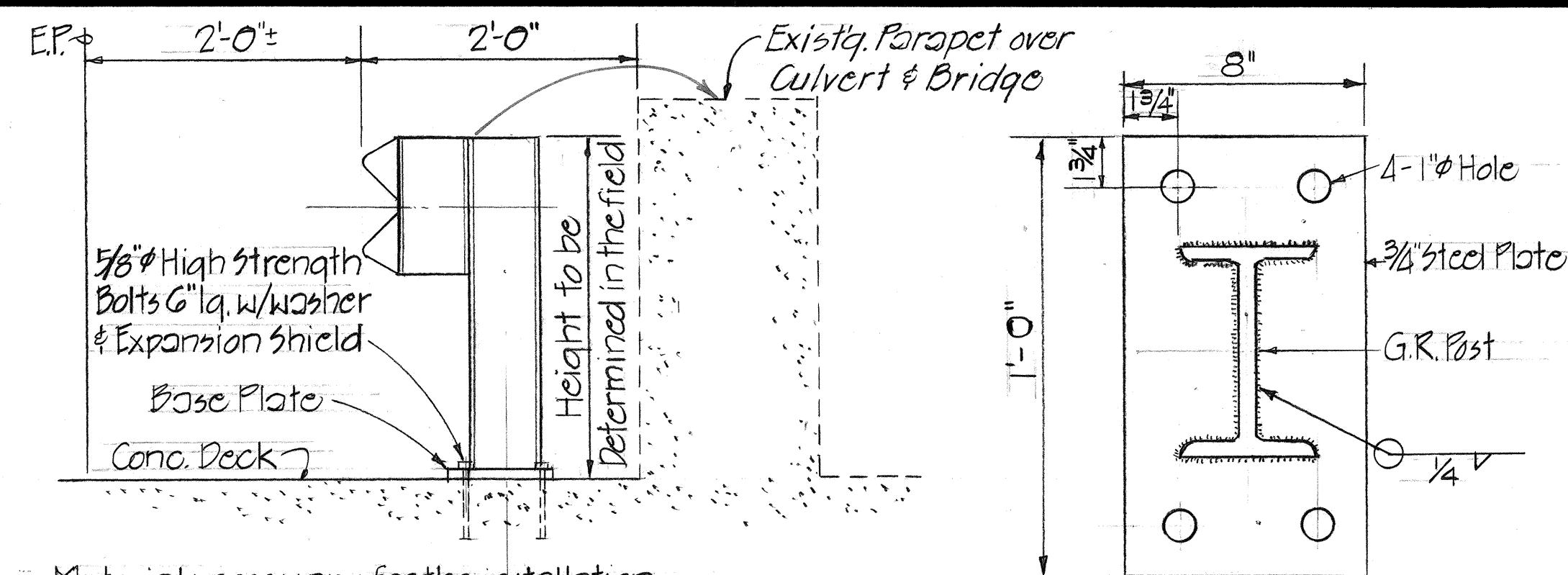


| FED. ROAD<br>DIST. NO. | STATE | PROJ. NO.   | FISCAL<br>YEAR | SHEET<br>NO. | TOTAL<br>SHEETS |
|------------------------|-------|-------------|----------------|--------------|-----------------|
| HAWAII                 | HAW.  | HWY-K-03-82 | 1982           | 6            | 14              |



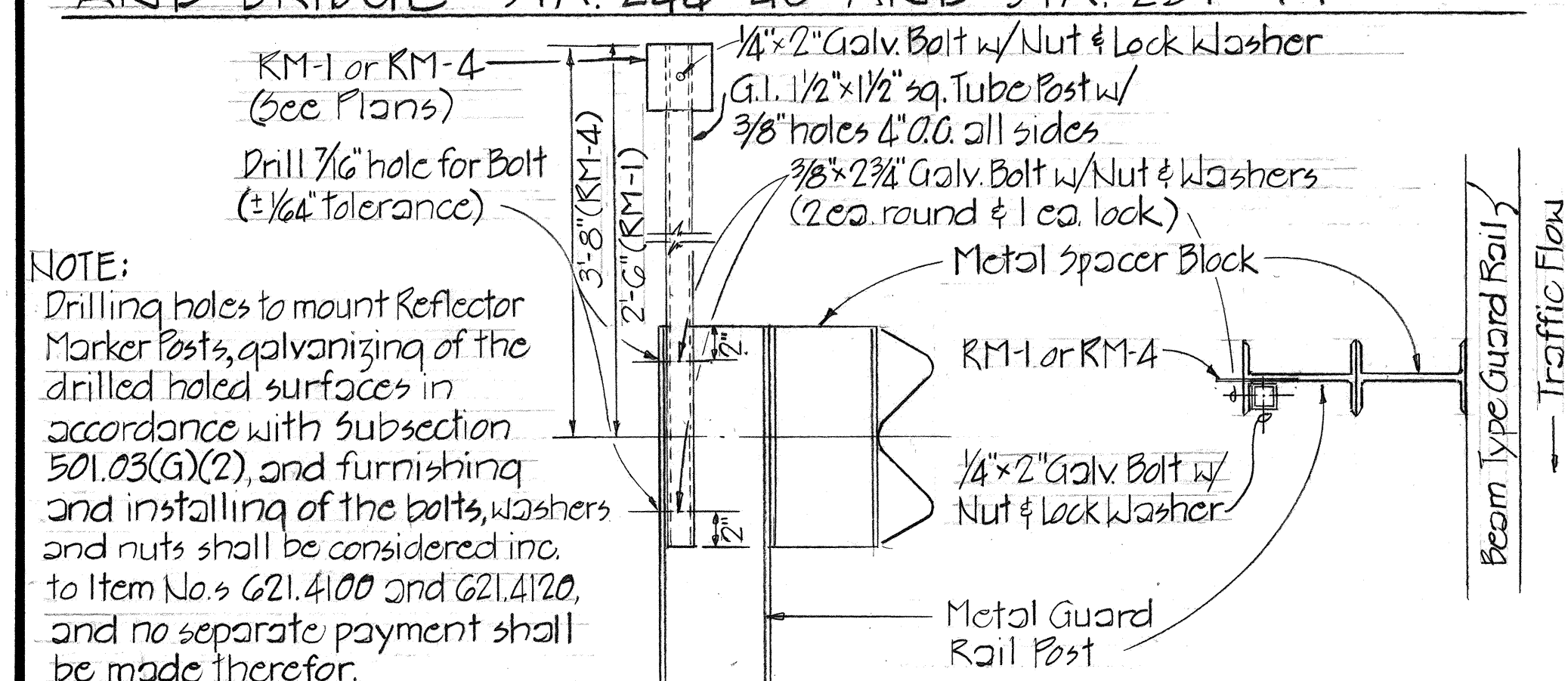
Materials necessary for the installation of the special G.R. Post shall not be paid for separately but shall be considered inc. to "Guگرد Rail, Type 3-Single w/steel Post."

Note: Guard rail posts installed over parapet wall.

SECTION  
Scale: 1" = 1'-0"

BASE PLATE  
scale: 3" = 1'-0"

DETAIL~SPECIAL GUARD RAIL POST OVER BOX CULVERT  
AND BRIDGE- STA. 244+40 AND STA. 251+77



NOTE:

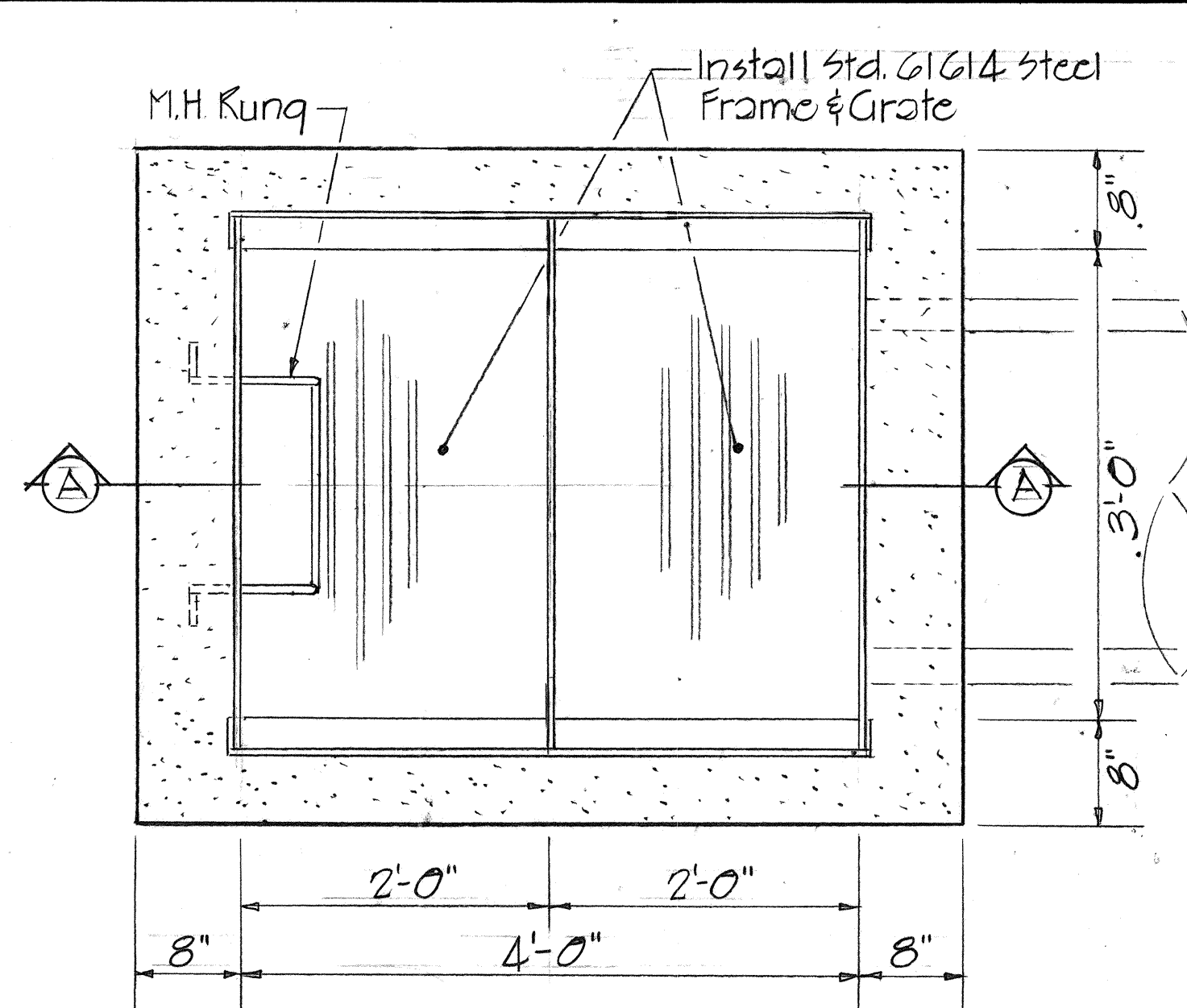
Drilling holes to mount Reflector Marker Posts, galvanizing of the drilled holed surfaces in accordance with Subsection 501.03(G)(2), and furnishing and installing of the bolts, washers and nuts shall be considered inc. to Item Nos 621.4100 and 621.4120, and no separate payment shall be made therefor.

ELEVATION

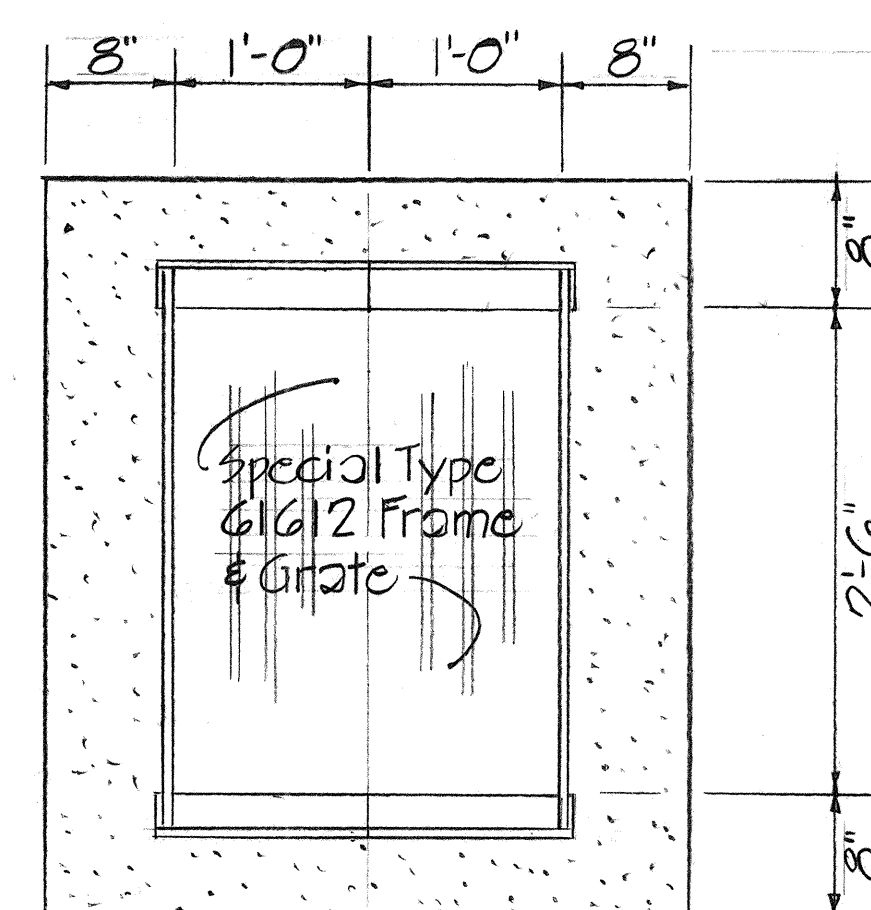
## PLAN

## REFLECTOR MARKER MOUNTING ON METAL GUARD RAIL DETAIL

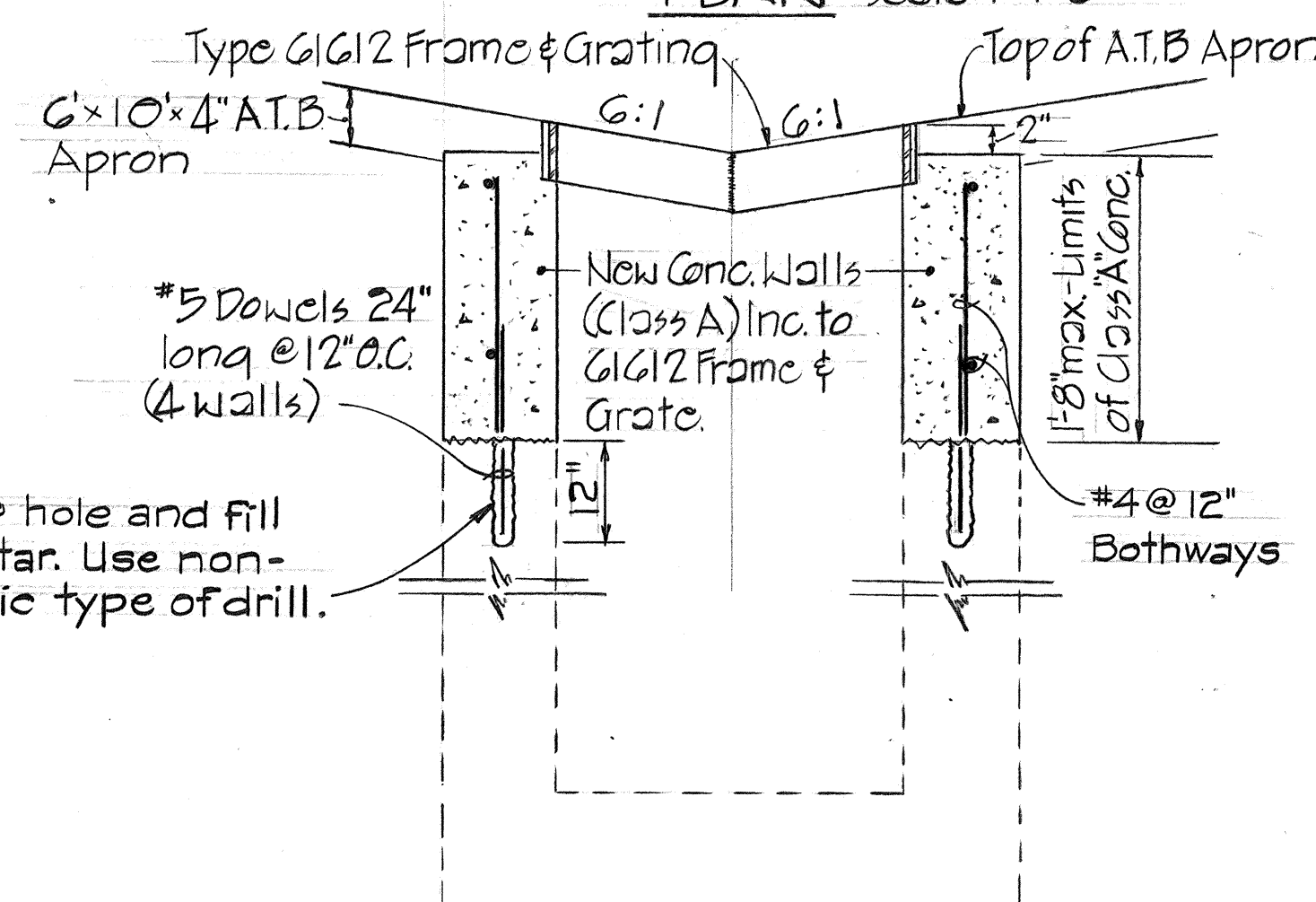
Scale:  $1\frac{1}{2}" = 1'-0"$



# PLAN

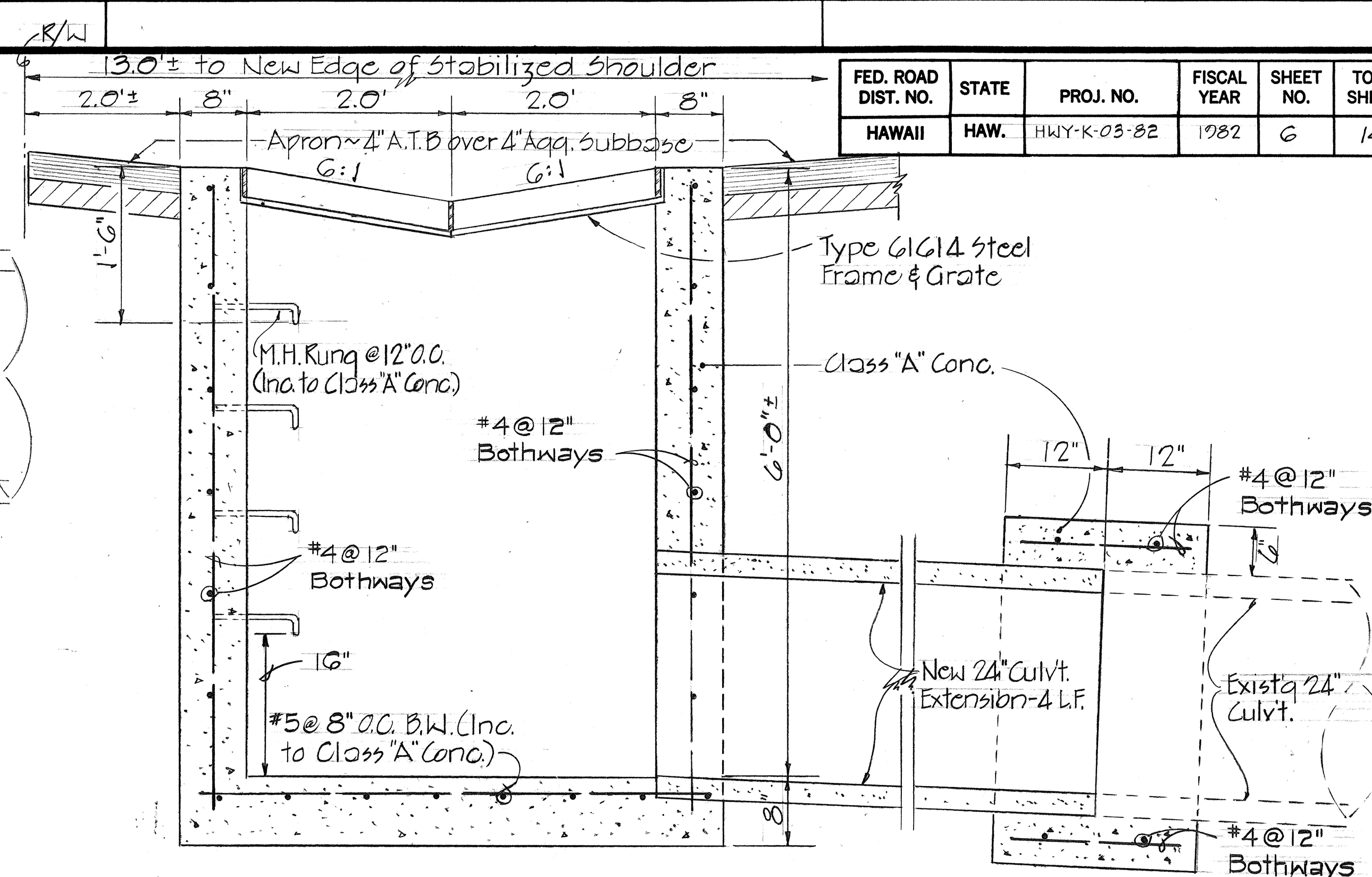


PLAN Scale: 1"=1'-0"



SECTION Scale: 1"=1'-0"

DETAILS~RECONSTRUCTION OF EXIST'G.  
CONC DROPTAKE @ STA. 5+00 LT.

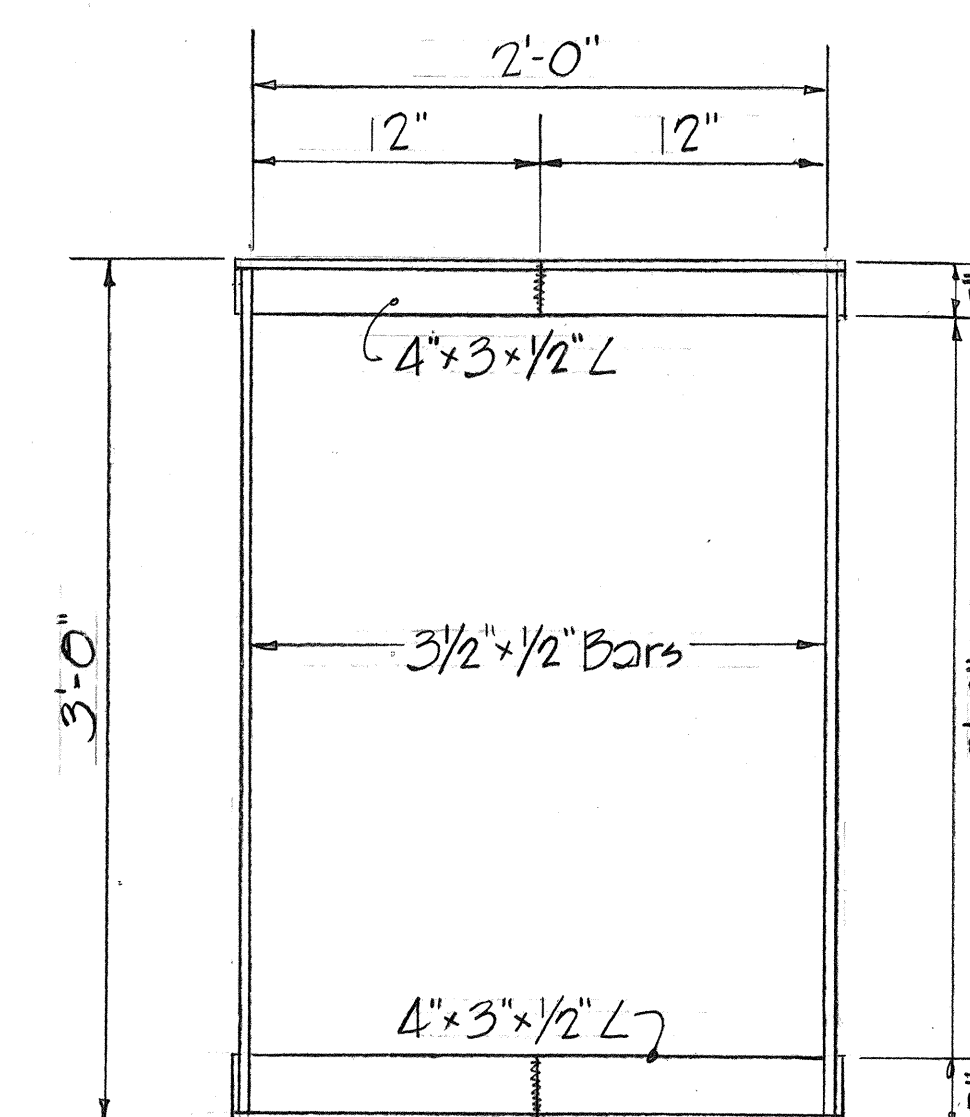


SECTION "A"- "A"

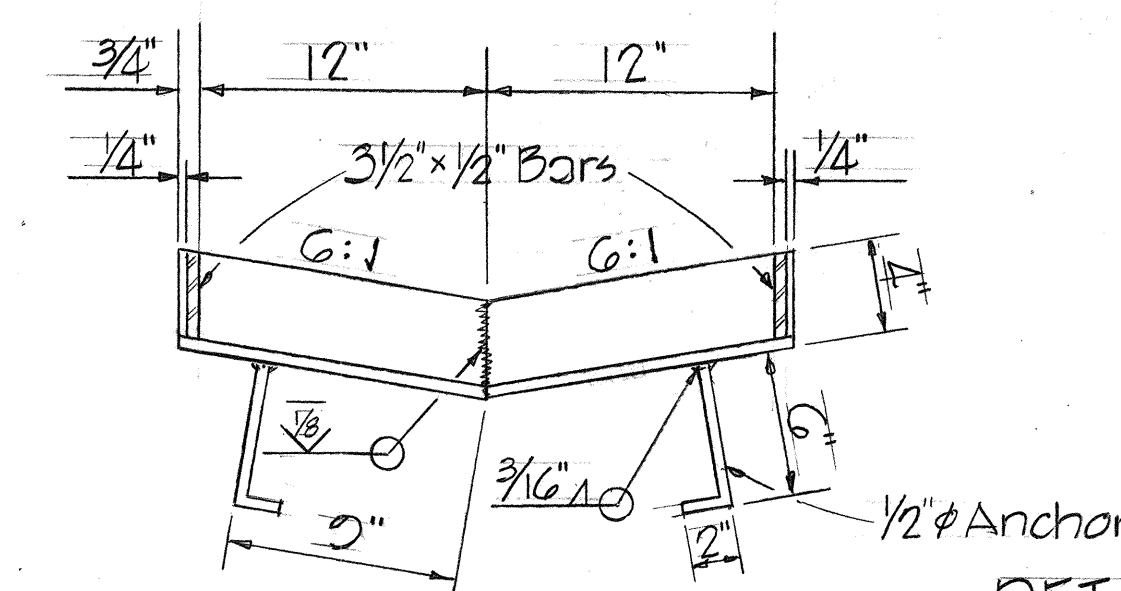
### CONNECTION DETAIL

DETAIL ~ CONC. DROP INTAKE @ STA. 217+30 LT.

scale: 1" = 1'-0"



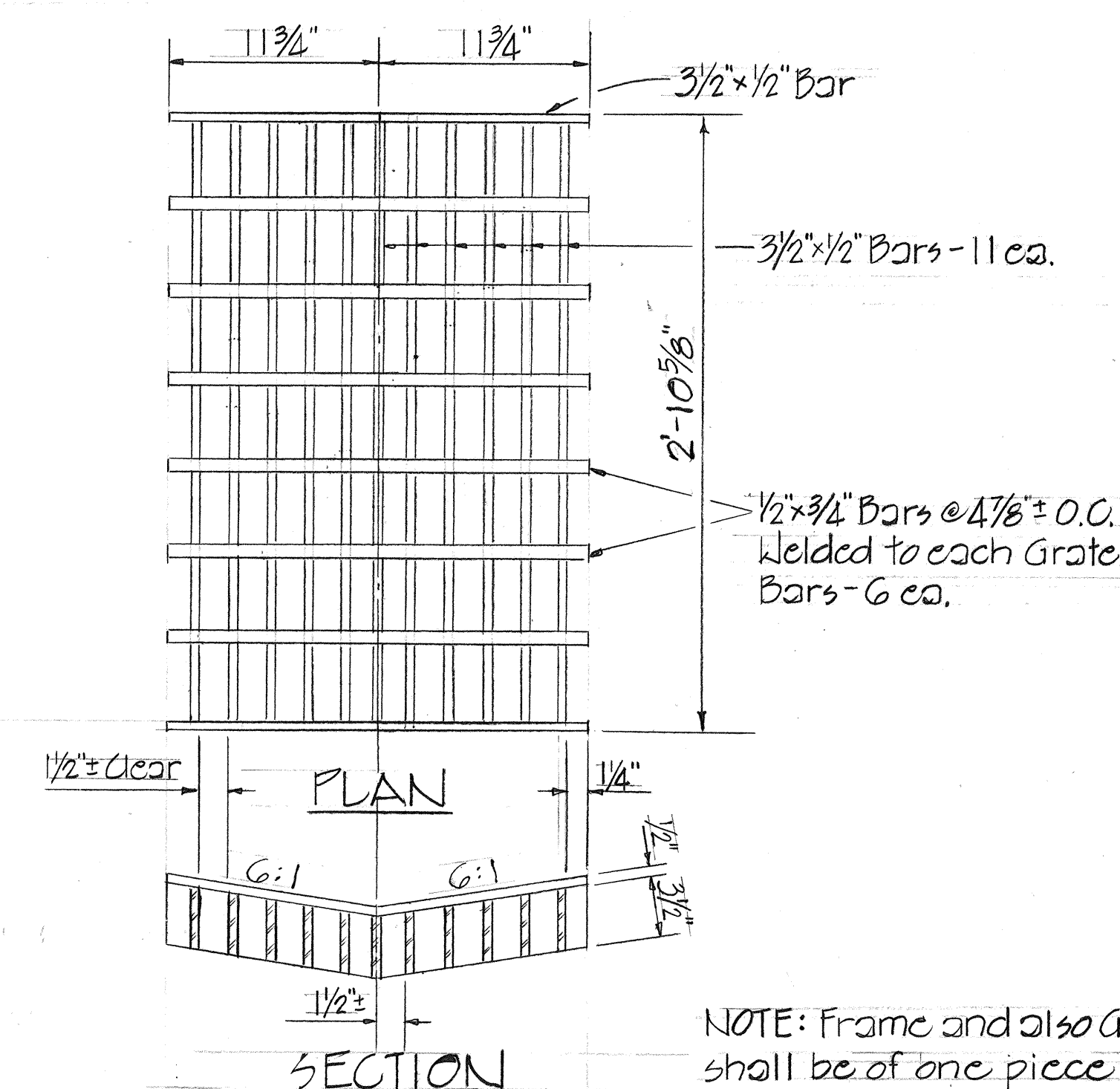
PLAN scale:  $1/2" = 1'-0"$



SECTION scale:  $1\frac{1}{2}" = 1'-0"$

DETAIL~MODIFIED  
GIGI2 STEEL FRAME  
& GRATE      scale:  $1\frac{1}{2}"=1'-0"$

Scale:  $1\frac{1}{2}" = 1'-0"$



SECTION

NOTE: Frame and also Grating shall be of one piece construction

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

DETAILS~ GUARD RAILS, C.D.I.,  
FRAME & GRATING

Scale: As Shown

Mar. 1982

SHEET No. | OF | SHEETS