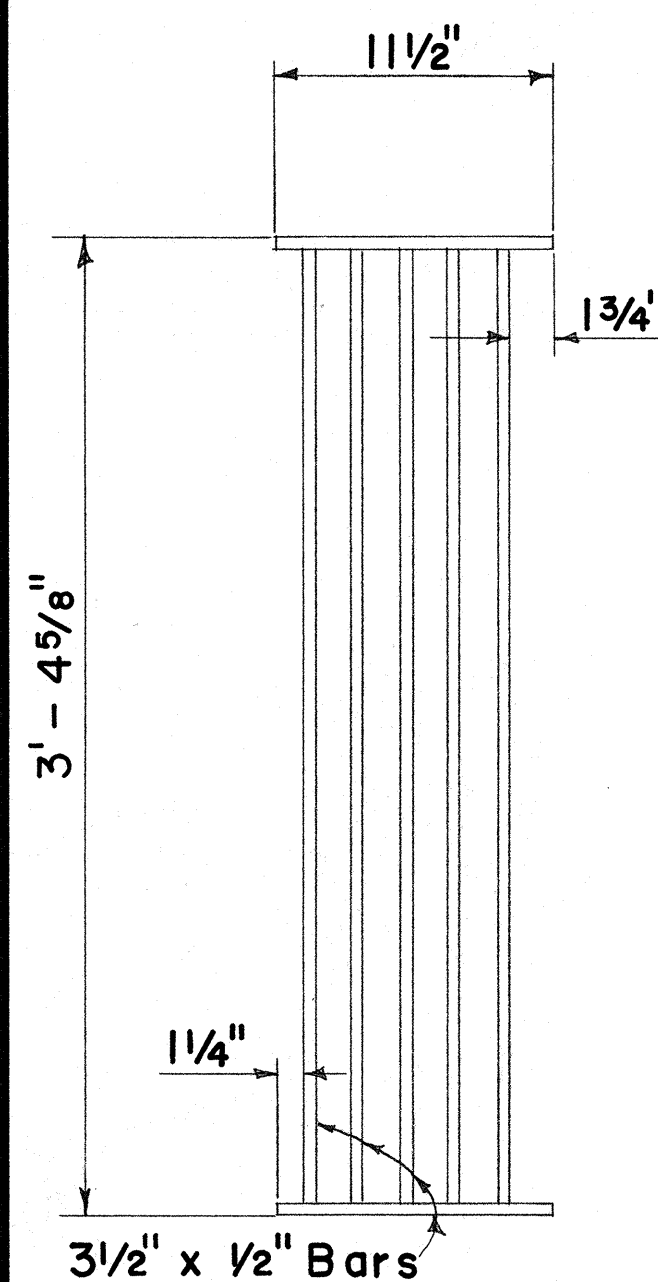


DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	500D-01-10	1974	36	49

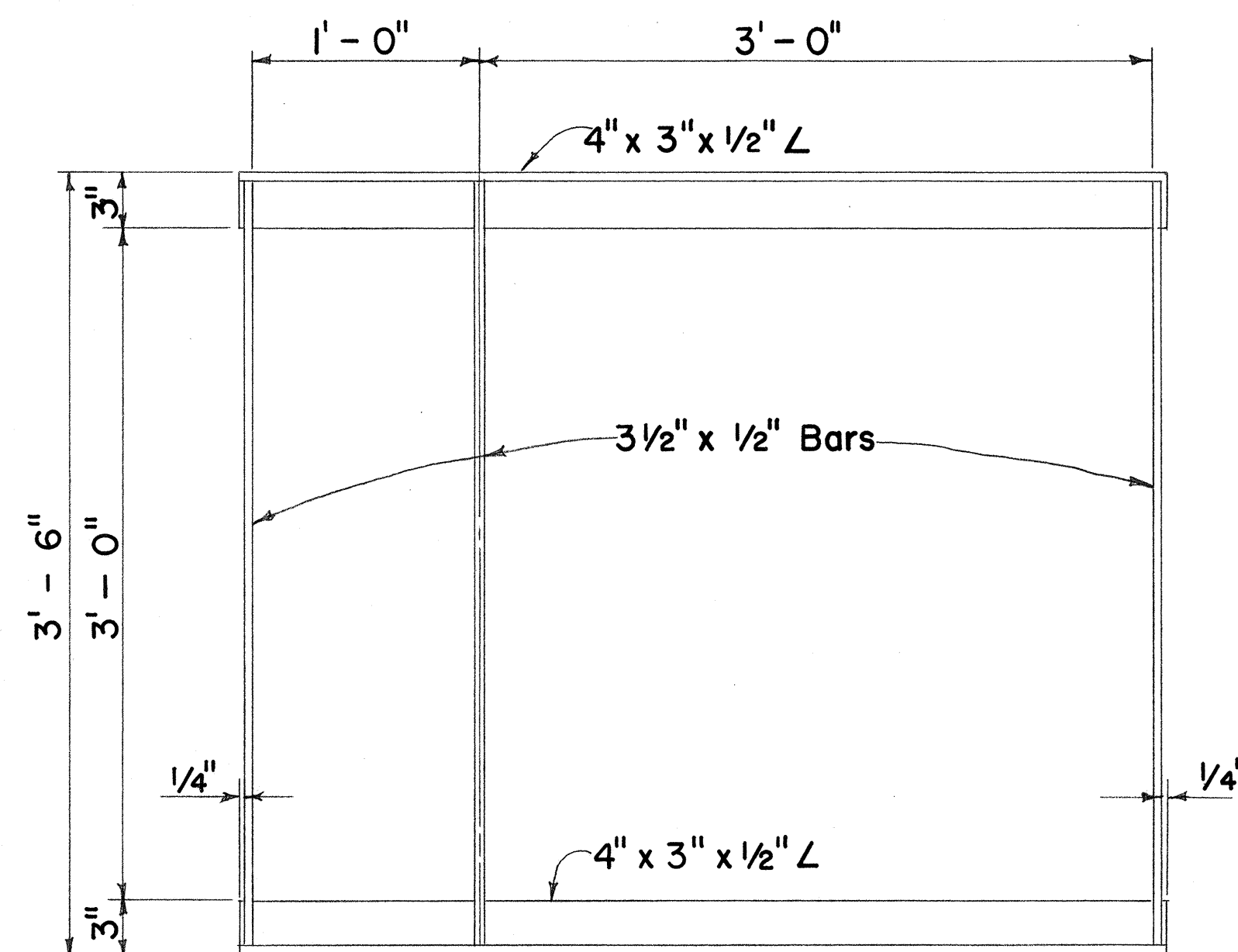
GENERAL NOTES

- Grates and Frames shall be hot dip galvanized after fabrication, see specifications.
- All welds $\frac{3}{8}$ " unless other wise noted.
- The Frame & Grate materials shall conform to the specifications of ASTM Designation Structural Steel A283, Grade D and the Standard Specifications.
- Culvert shall leave Drop Intake from any position and any direction indicated by plans or ordered by the Engineer. Culverts may both enter and leave Drop Intake so that Drop Intake will act as manhole.
- Manhole Rungs (16" o.c.) are required when "H" is greater than 4 feet 6 inches. Only one rung (12 inches from the bottom) is required if "H" is 4 feet 6 inches or less. The Manhole Rungs may be placed at any location as ordered by the Engineer.



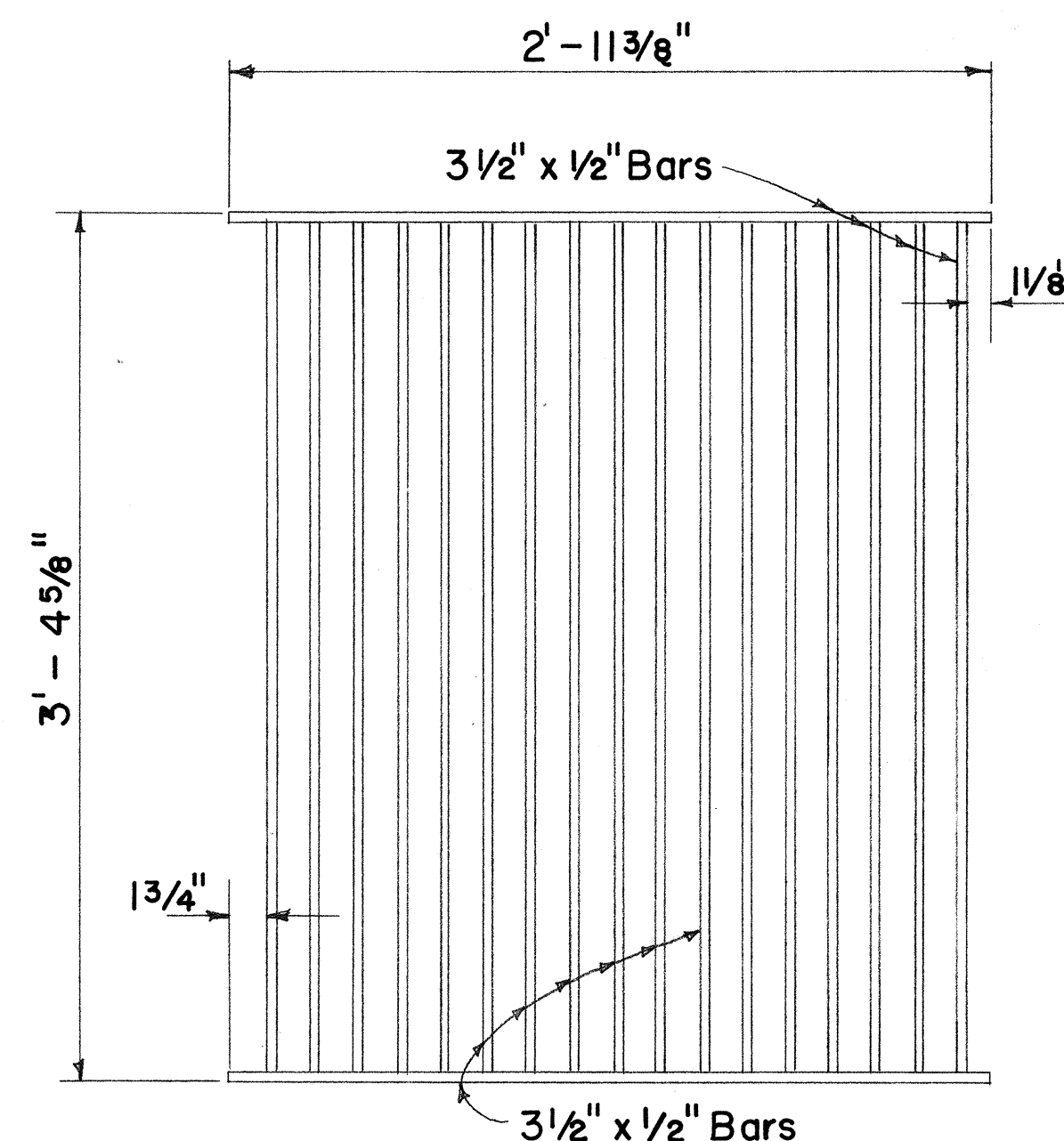
PLAN

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



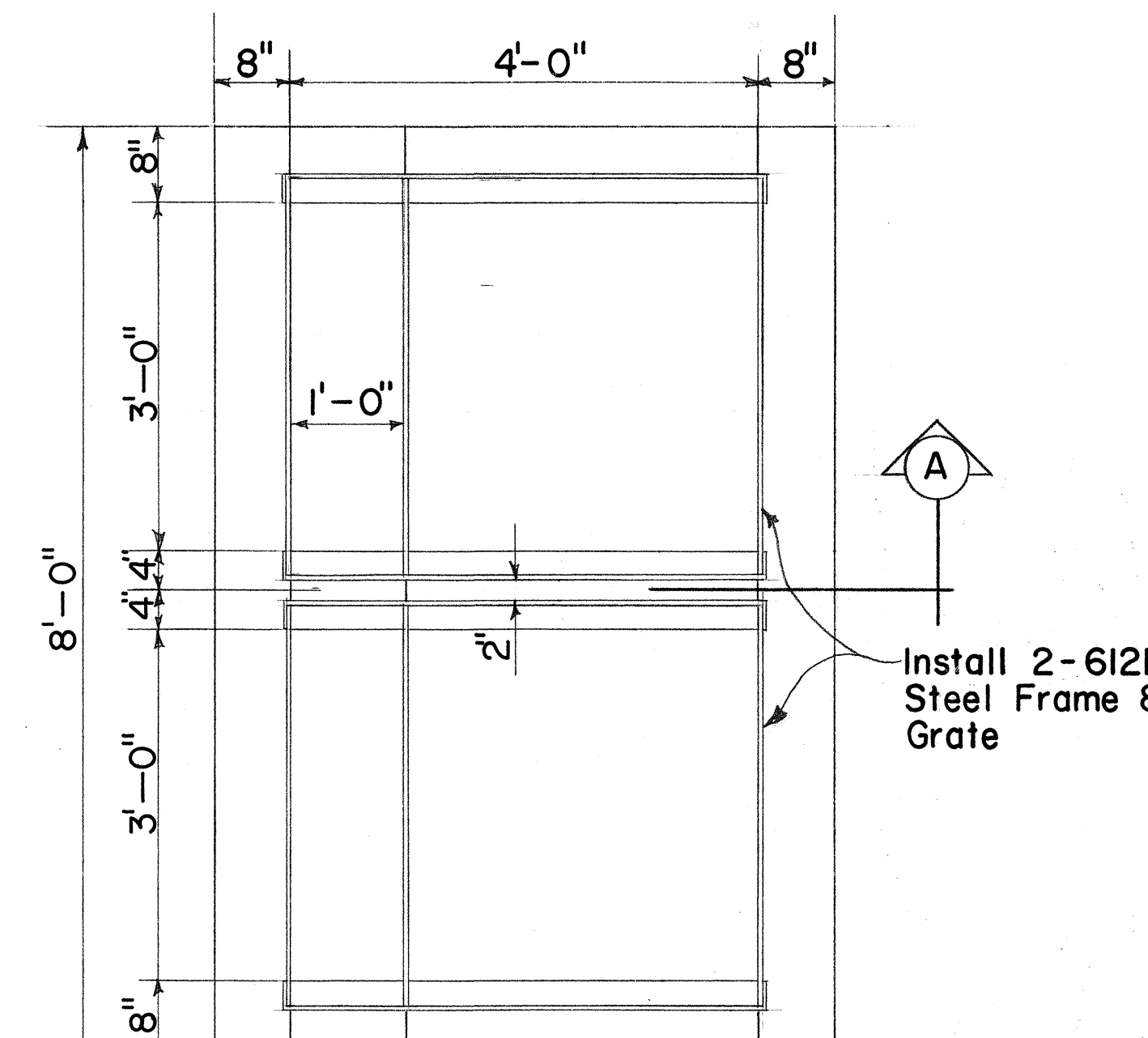
PLAN

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

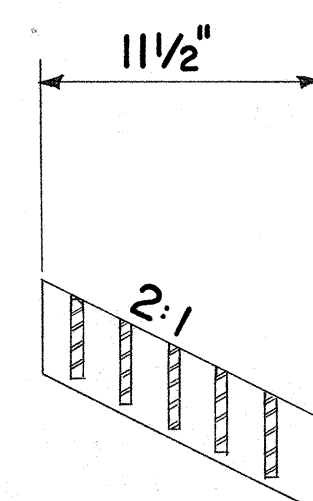


PLAN

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

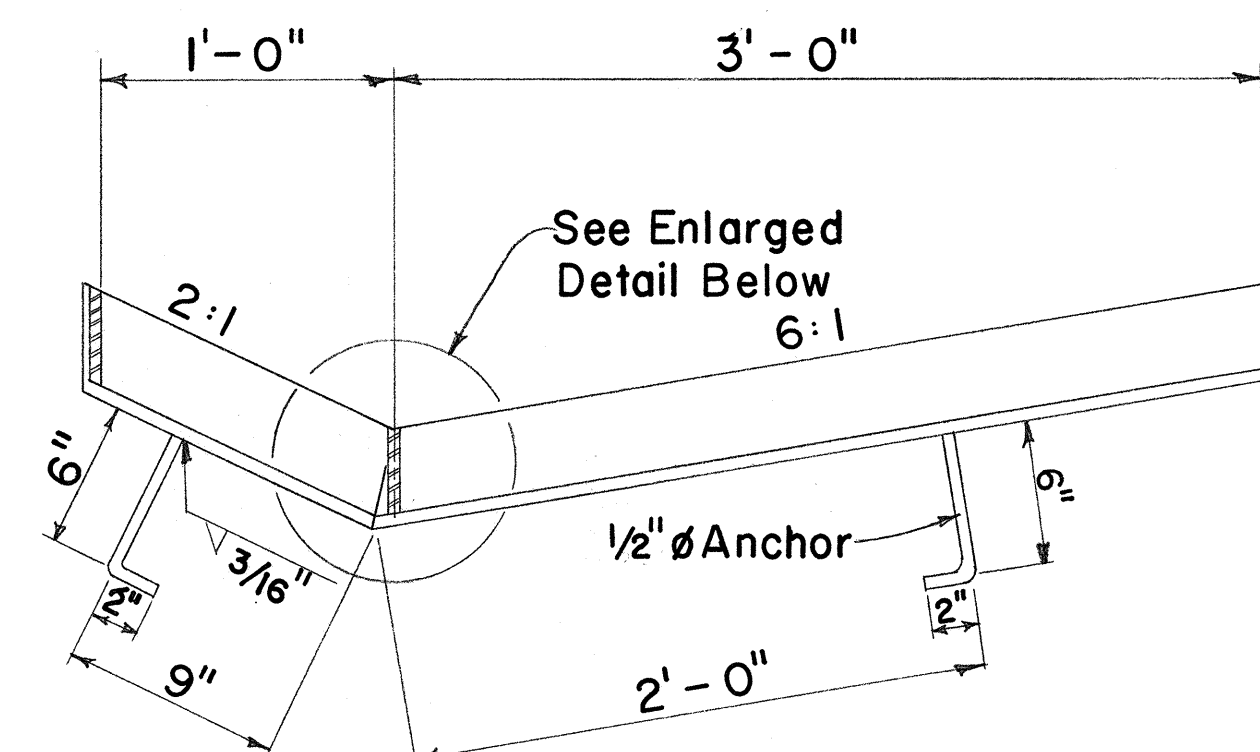


PLAN



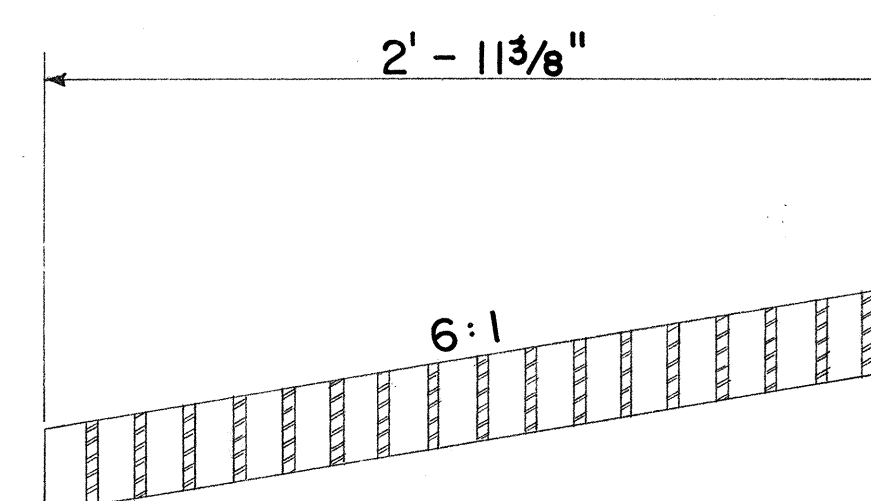
SECTION

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



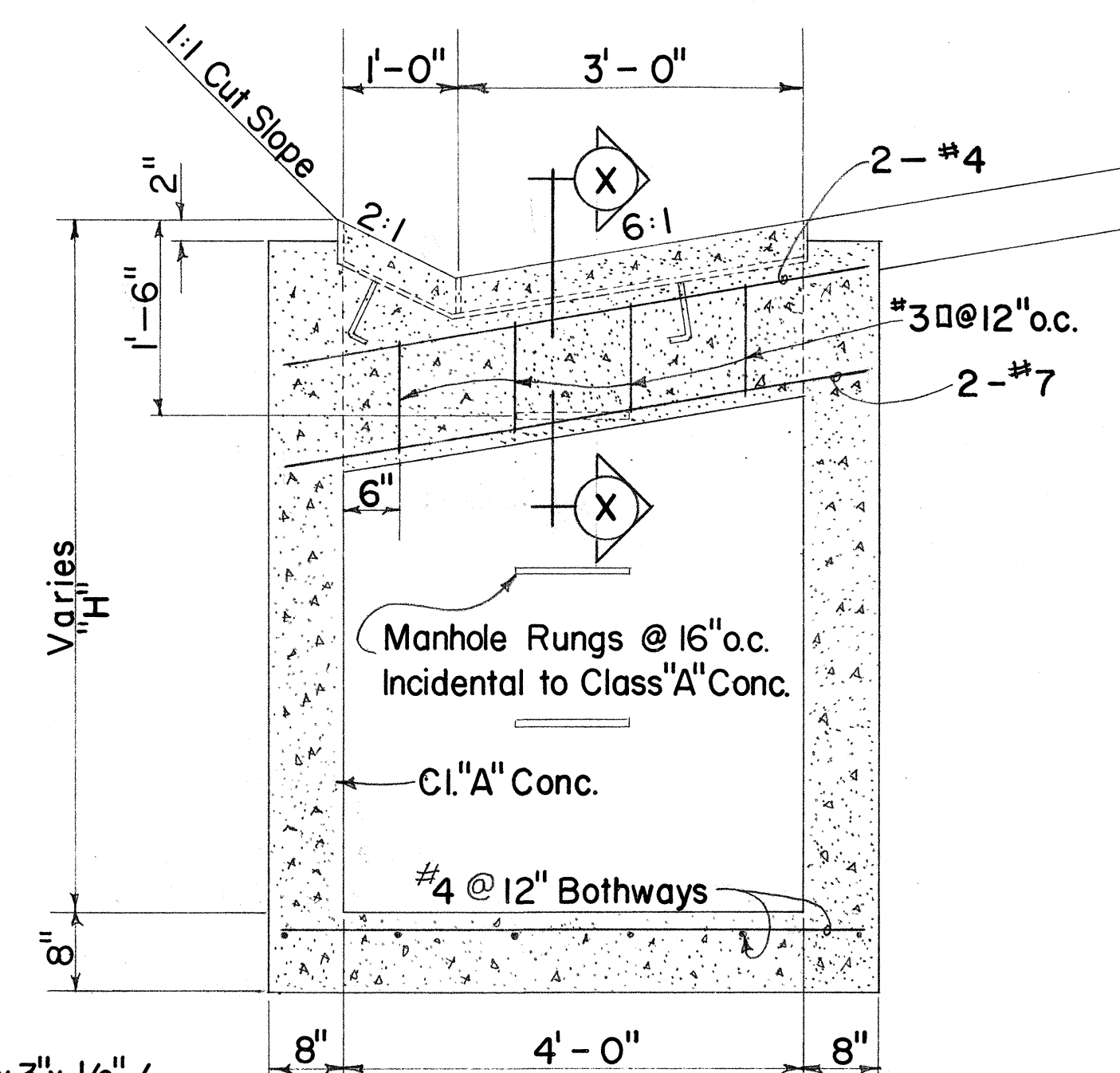
SECTION

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



SECTION

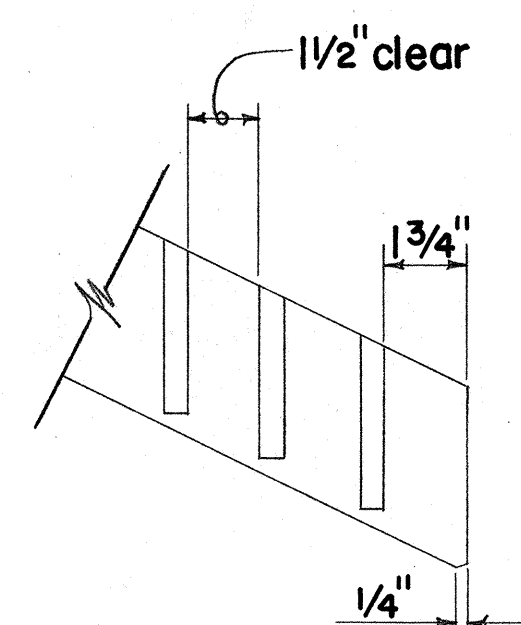
Scale: $1\frac{1}{2}" = 1' - 0"$



SECTION "A - A"

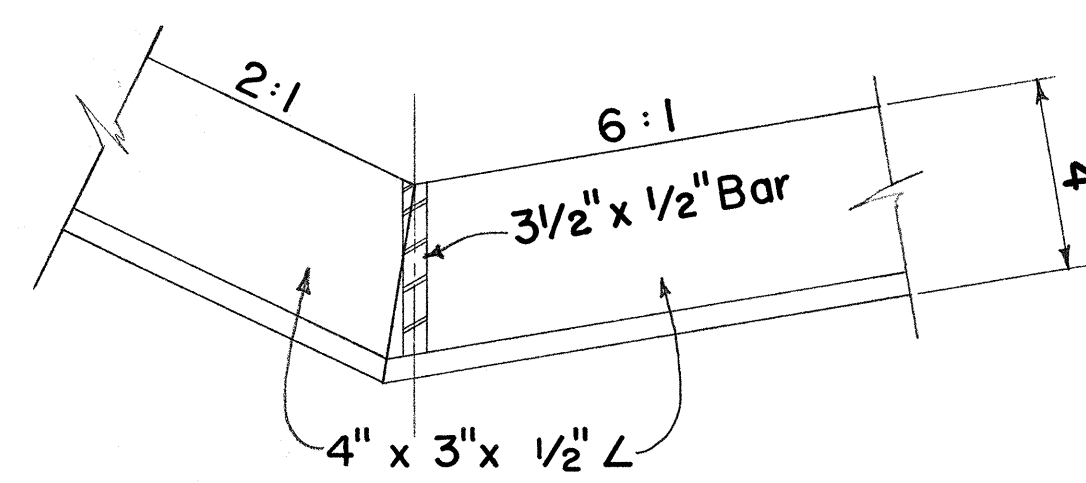
DETAIL OF MODIFIED 61214 DROP INTAKE

Scale: $\frac{3}{4}" = 1' - 0"$



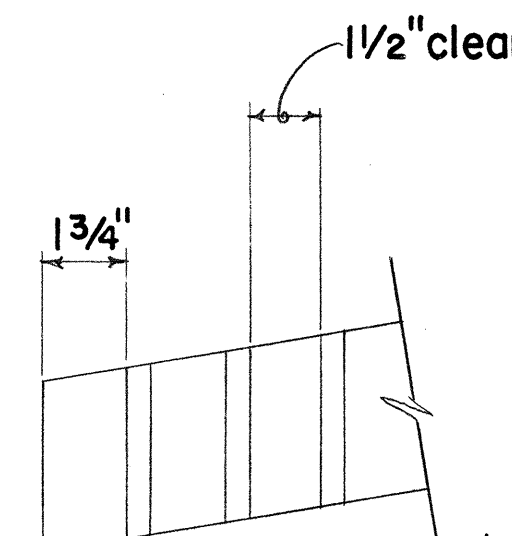
GRATE

Scale: $3" = 1' - 0"$



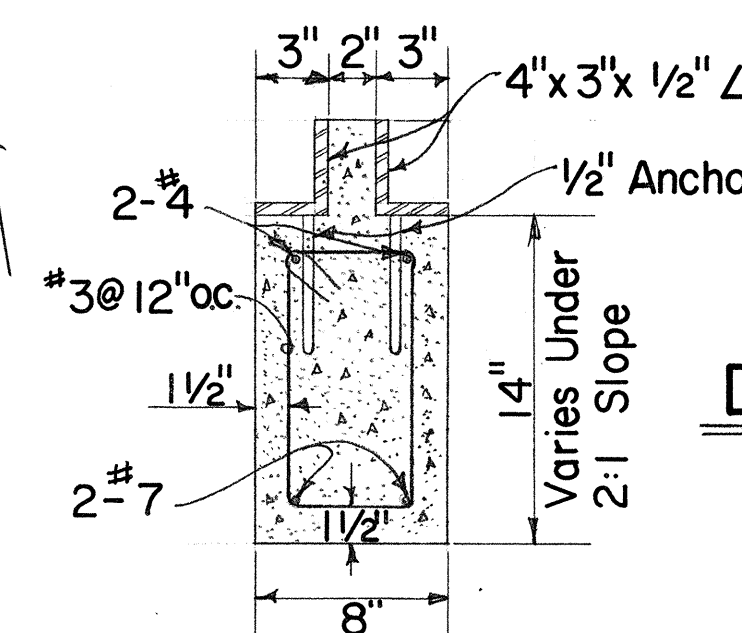
FRAME

Scale: $3" = 1' - 0"$



GRATE

Scale: $3" = 1' - 0"$



SECTION "X-X"

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



THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION.

Masao Kutaka
Signature
2/13/73

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DETAIL OF MODIFIED STANDARD

TYPE 61214
GRATED DROP INTAKE

SHEET No. OF SHEETS

DETAILS OF TYPE 61214 STEEL FRAME AND GRATES