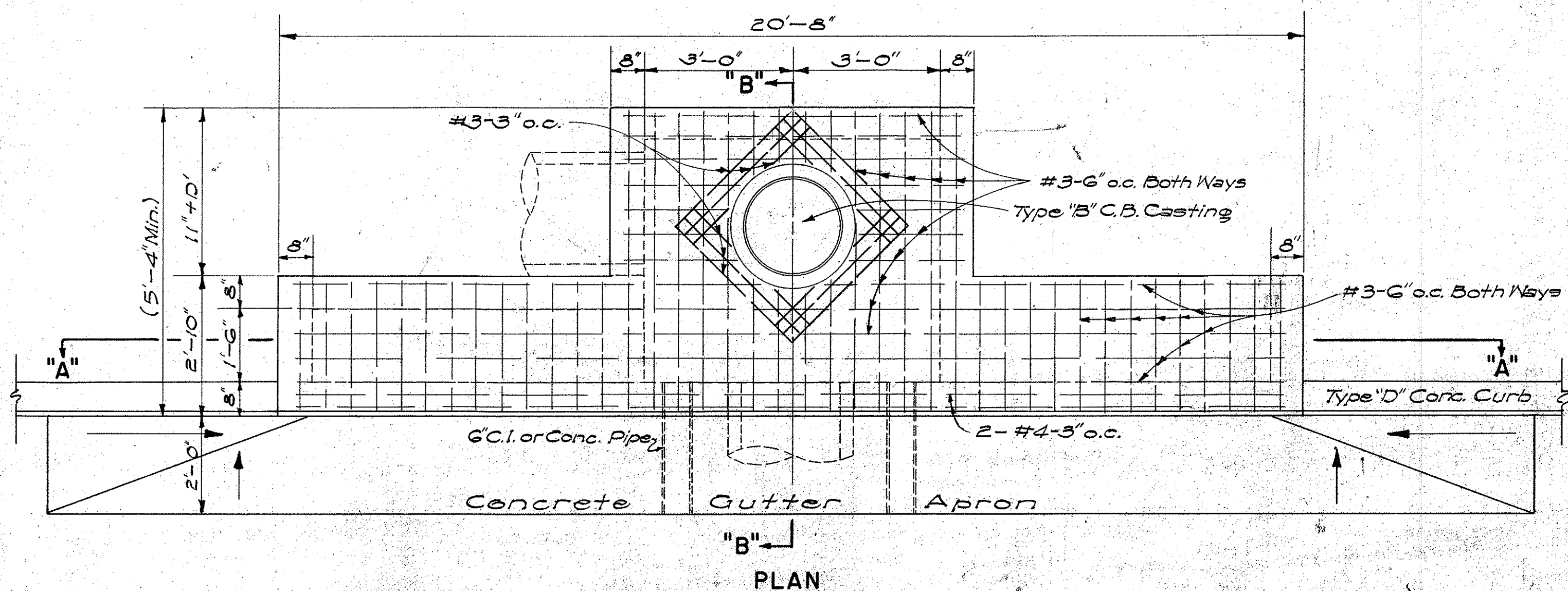
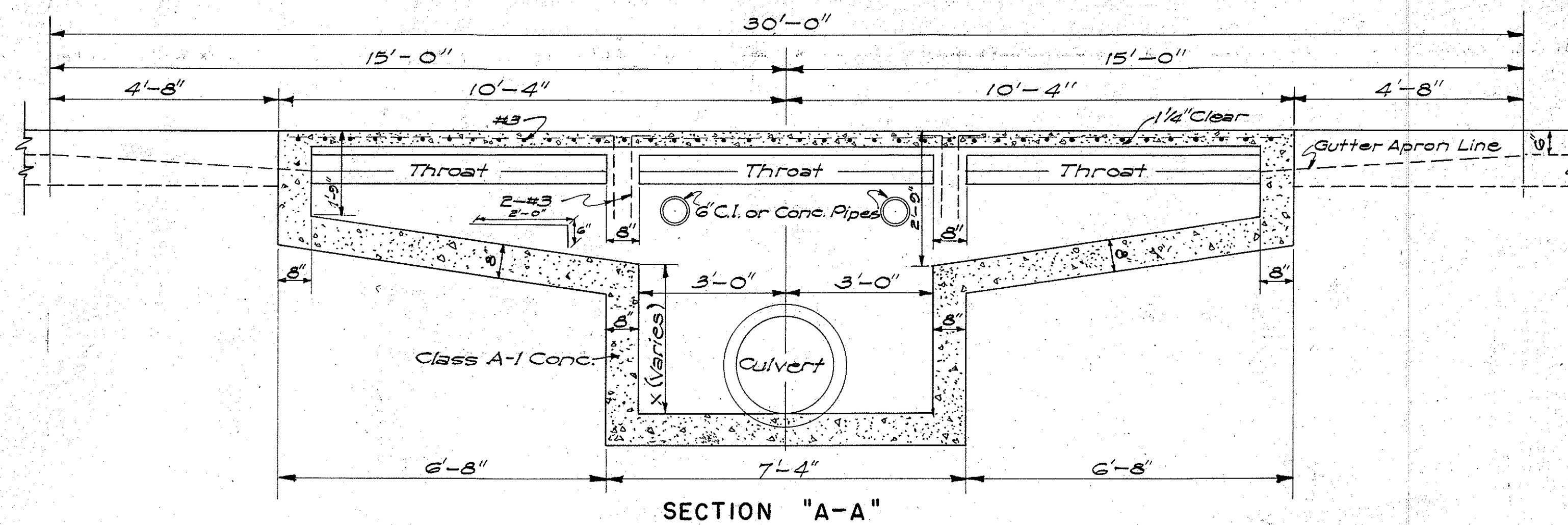
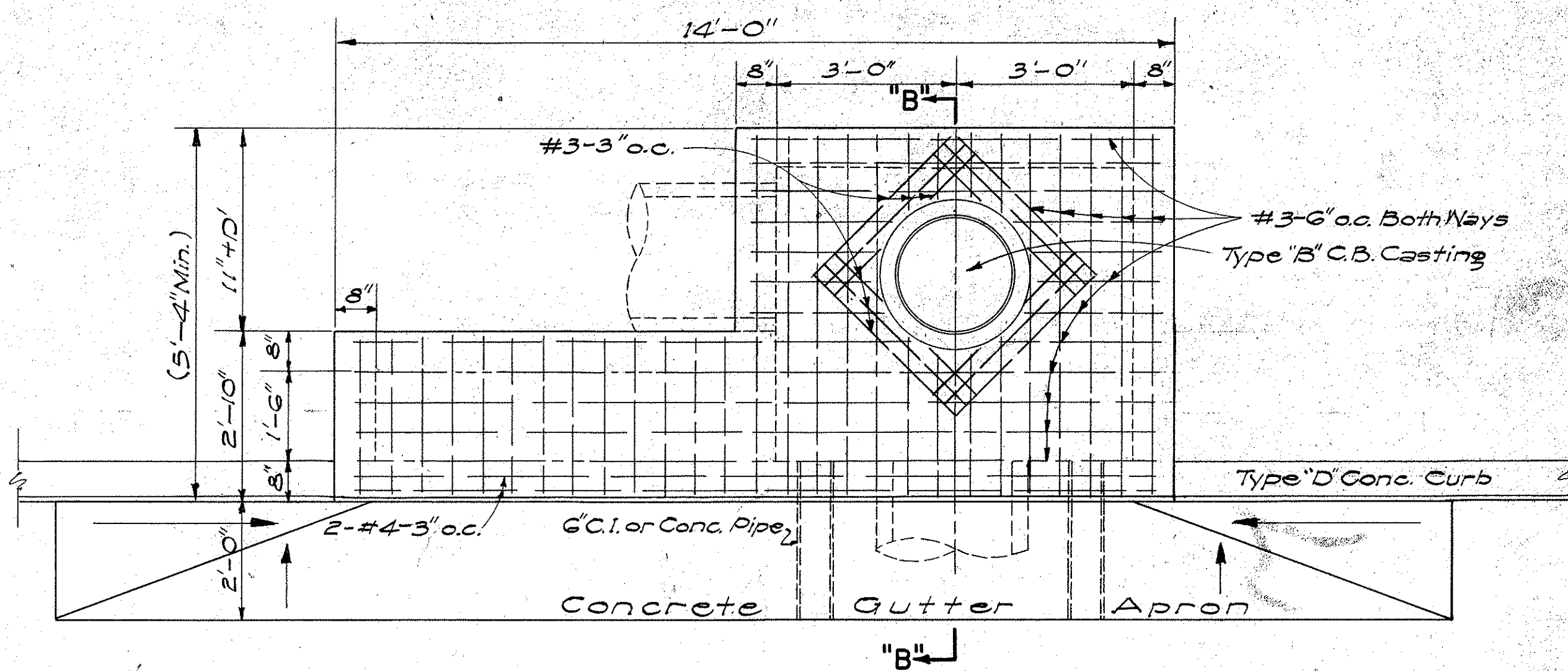


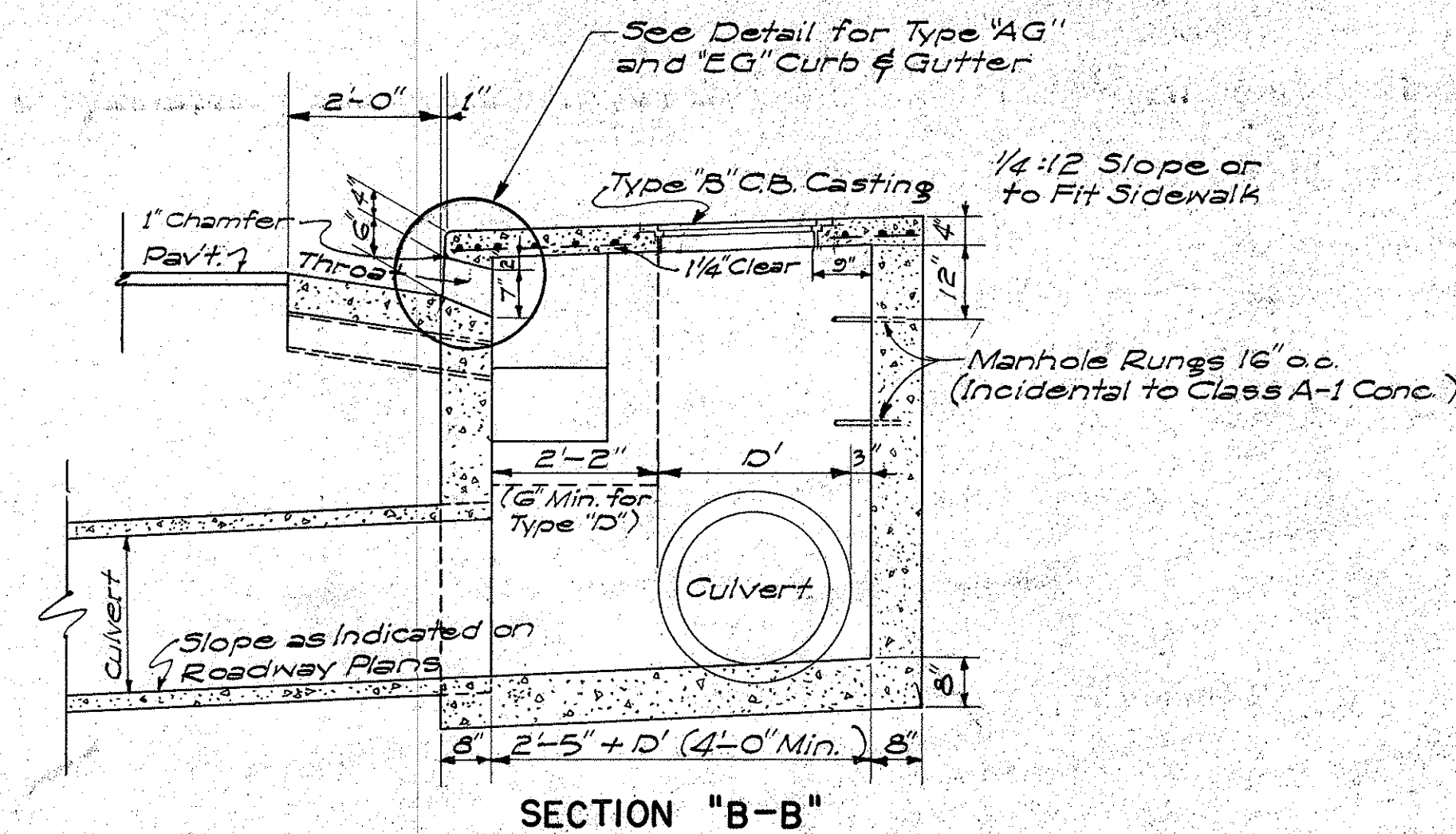


DETAIL OF TYPE "A" CATCH BASIN
SCALE: 1/2" = 1'-0"

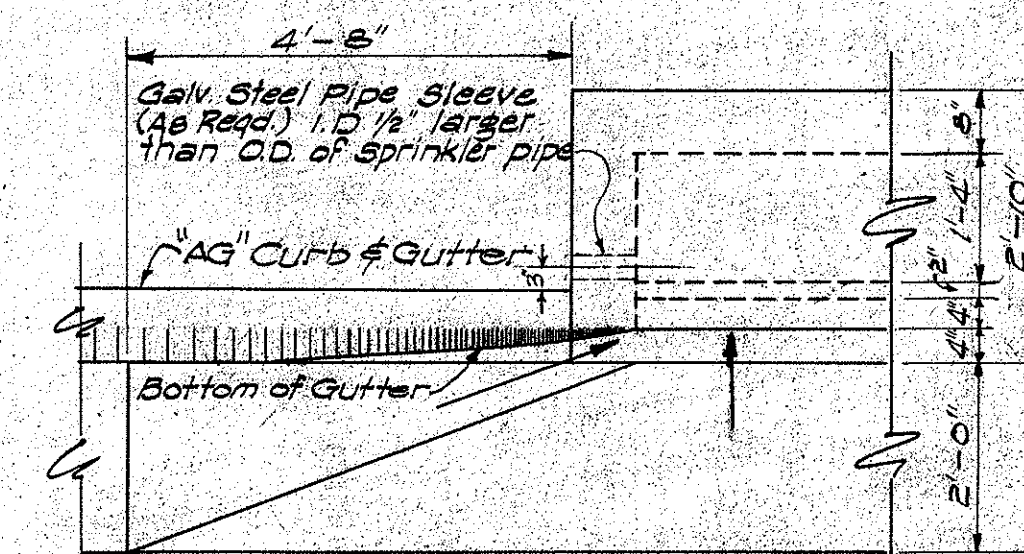


DETAIL OF TYPE "B" CATCH BASIN
SCALE: 1/2" = 1'-0"

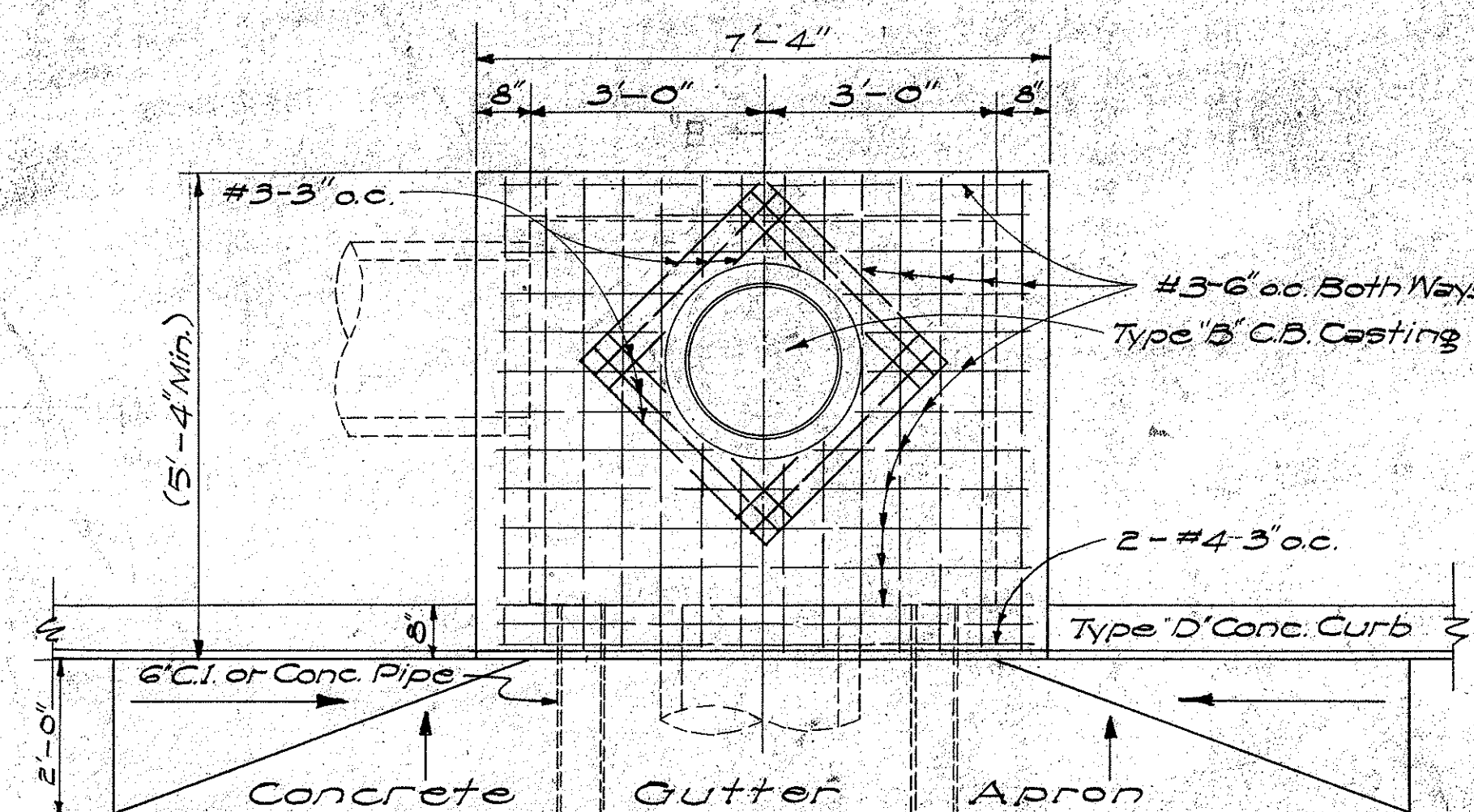
NOTE: TYPE "C" C.B. SIMILAR BUT OPPOSITE HAND



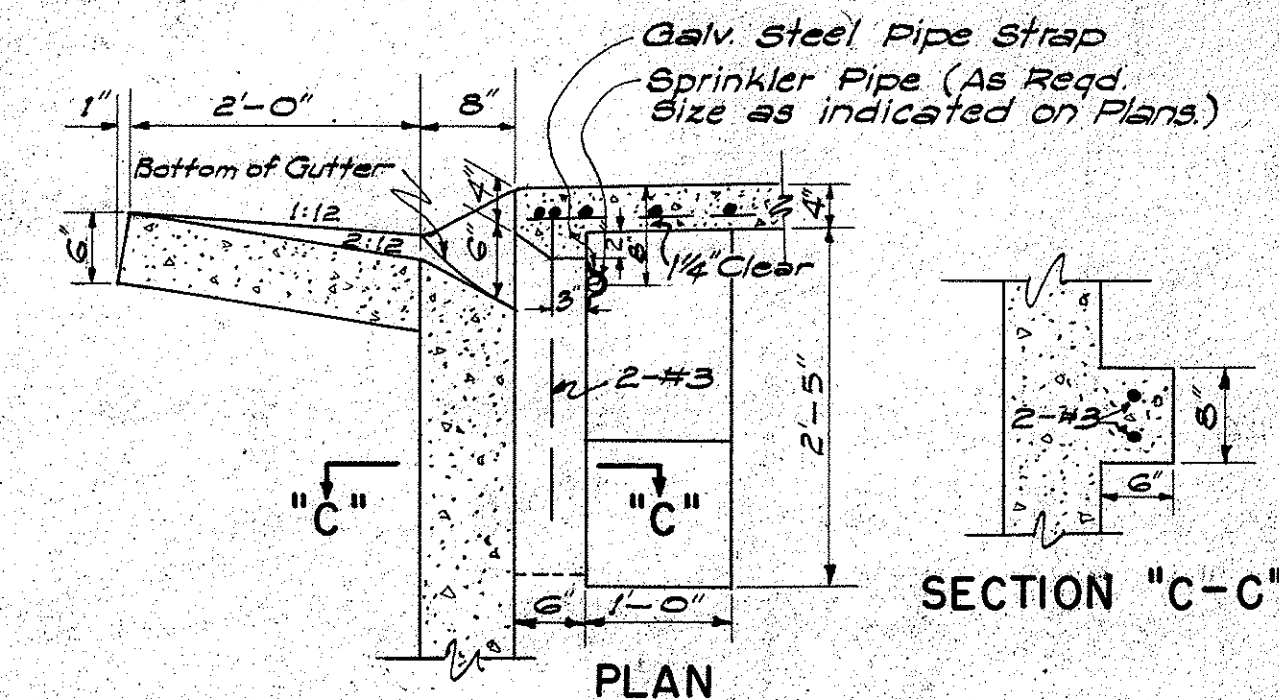
DETAIL OF CATCH BASIN
WITH TYPE "EG" CURB & GUTTER



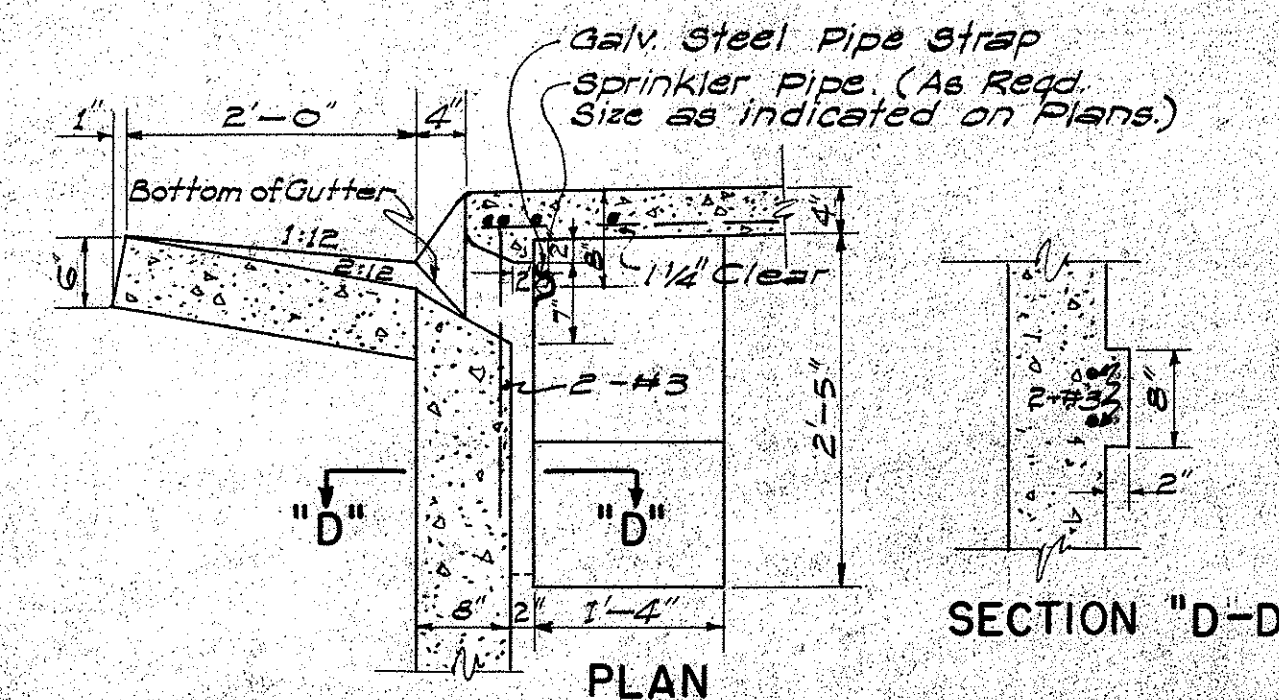
DETAIL OF CATCH BASIN
WITH TYPE "AG" CURB & GUTTER
SCALE: 1/2" = 1'-0"



DETAIL OF TYPE "D" CATCH BASIN
SCALE: 1/2" = 1'-0"



THROAT DETAIL FOR
TYPE "EG" CURB & GUTTER
SCALE: 3/4" = 1'-0"



THROAT DETAIL FOR
TYPE "AG" CURB & GUTTER
SCALE: 3/4" = 1'-0"

ESTIMATED QUANTITIES

Type	Class A-1 Conc.	Struct. Exc.	Reinf. Steel	Gutter Length
"A"	7.5 cy	24.7 cy	145 lb.	30'-0"
"B"	6.0 cy	21.5 cy	108 lb.	23'-4"
"C"	6.0 cy	21.5 cy	108 lb.	23'-4"
"D"	4.0 cy	16.5 cy	77 lb.	16'-8"

NOTES:

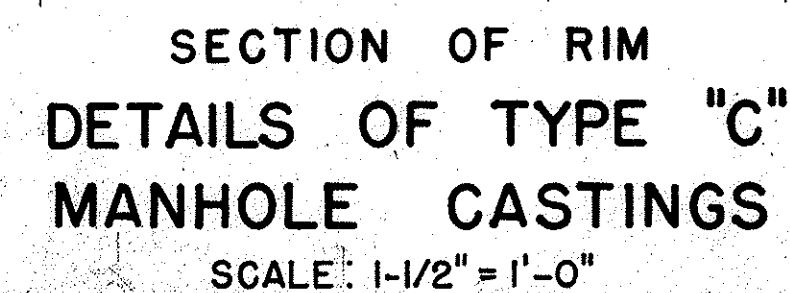
- Quantities based on X=3'-0" and D=30"
- Quantities do not include concrete for Gutter Apron.
- The Contractor shall install 2'-6" Cast Iron or Concrete Pipes as incidental to Class A-1 Concrete for Construction Drainage.
- Culvert shall leave C.B. from any position and any direction indicated by plans or ordered by the Engineer. Culvert may both enter and leave C.B. so that C.B. will also act as Manhole.
- The Contractor shall install Galvanized Steel Pipe Sleeves and Straps as incidental to Sprinkler System.

APPROVED: _____ DATE: AUG 25, 1957
STATE HIGHWAY ENGINEER

DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STATE OF HAWAII
STANDARD DETAILS
CONCRETE CATCH BASINS

SCALES AS NOTED
SHEET NO. 4 OF 2 SHEETS

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DESIGNED BY	"
	DRAWN BY	"
	TRACED BY <i>A. Callisto</i>	"
	QUANTITIES BY	"
No.	CHECKED BY	"



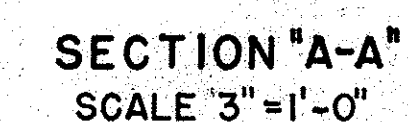
SCALE: 1-1/2" = 1'-0"



SCALE: 1-1/2" = 1'-0"

TYPE C C.I. FRAME AND GRATING

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



SCALE: 1 1/2" = 1'-0"

STANDARD DETAILS

SCALES AS NOTED

SHEET NO 2 OF 2 SHEETS

APPROVED:  DATE Aug. 26, 19
STATE HIGHWAY ENGINEER