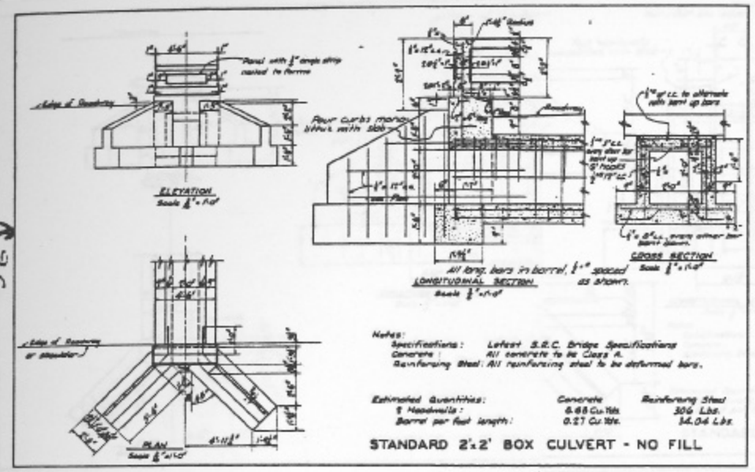
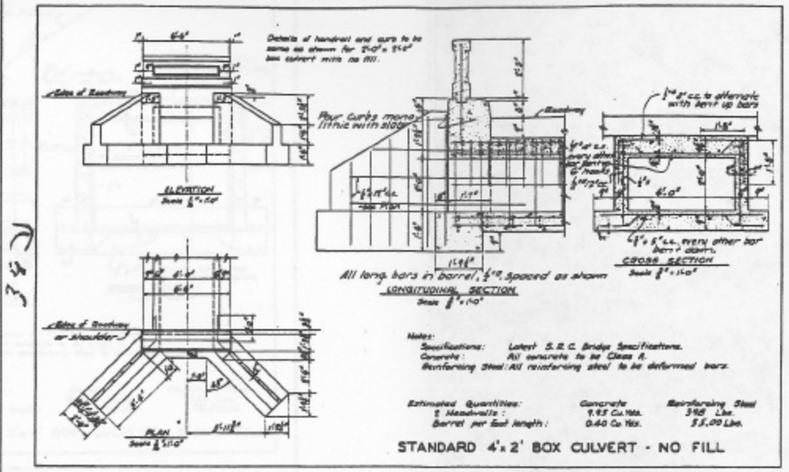
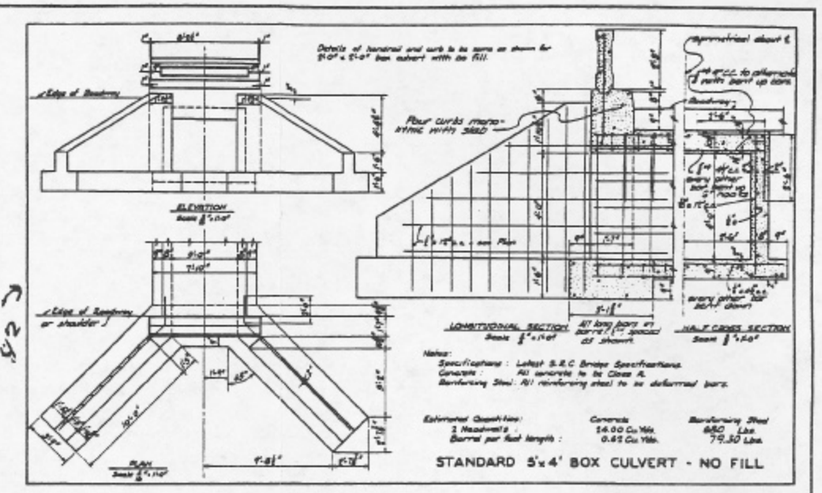


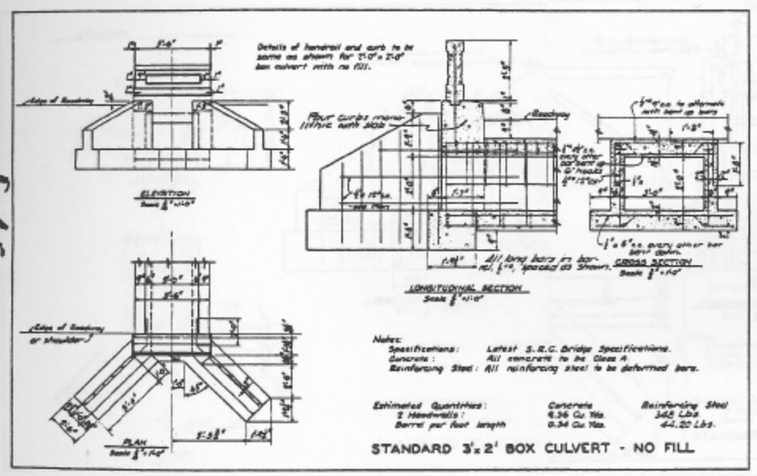
STANDARD 2'x2' BOX CULVERT - NO FILL



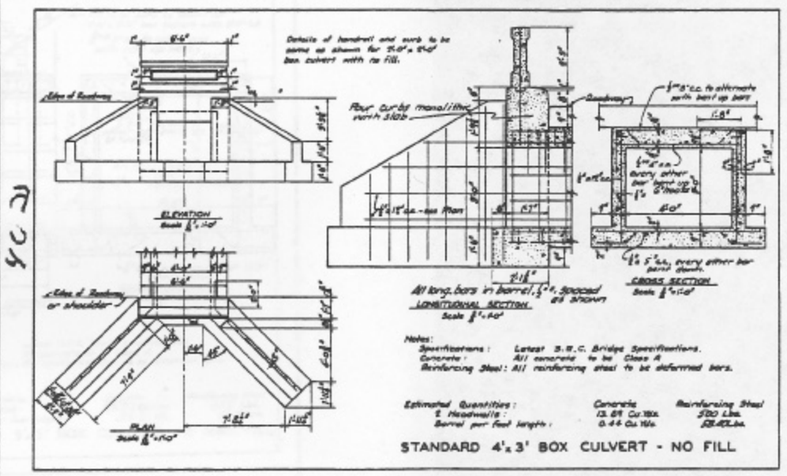
STANDARD 4'x2' BOX CULVERT - NO FILL



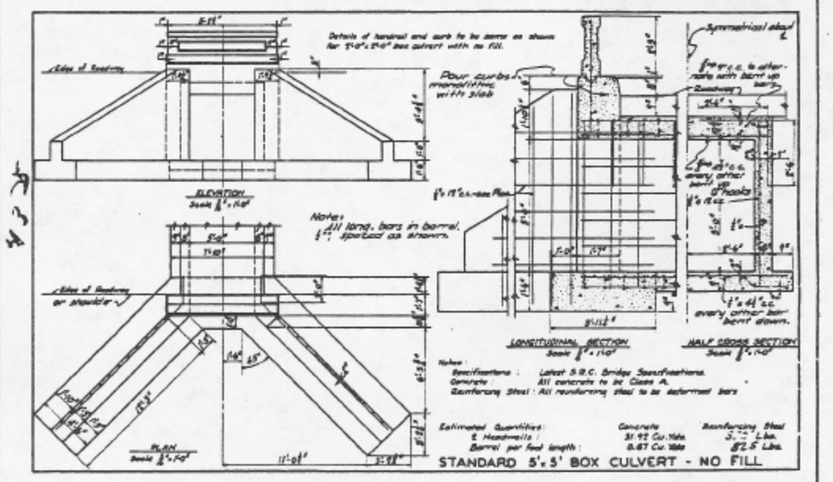
STANDARD 5'x4' BOX CULVERT - NO FILL



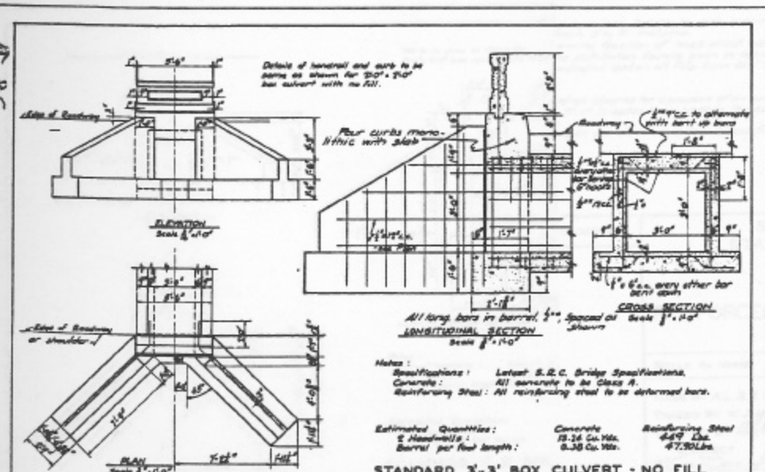
STANDARD 3'x2' BOX CULVERT - NO FILL



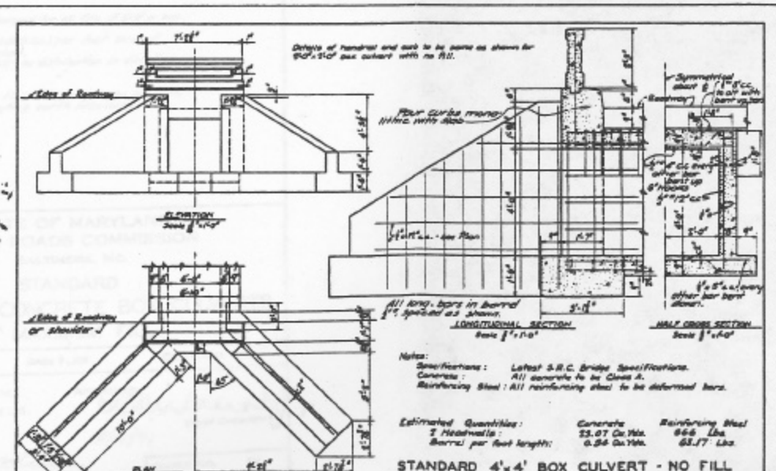
STANDARD 4'x3' BOX CULVERT - NO FILL



STANDARD 5'x5' BOX CULVERT - NO FILL



STANDARD 3'x3' BOX CULVERT - NO FILL



STANDARD 4'x4' BOX CULVERT - NO FILL

General Notes:

Loading: H20 as per U.S. Dept. of Agriculture Bulletin No. 1229.

Impact: 30%.

Live Load Distribution: $e = 0.75 + W$, in which e = distribution factor (feet), s = clear span (feet) and W = 1.67 ft. for H-20. To allow for effect of 2-overlapping wheels, e is reduced by: $e \div (e+2)$. This latter factor used to determine fraction of wheel load (16000 lbs.) per foot length of barrel. LL computed as concentrated load. No distribution in direction of span of slab.

Earth Pressure: Sidewalls and wings designed for a pressure of an earth fluid weighing 30 lbs. per cu. ft. A surcharge of 2'-0" is added to all heights for computing earth pressures.

Moments: In computing moments use distance c. to c. supports.

REVISIONS	STATE OF MARYLAND STATE ROADS COMMISSION BALTIMORE, MD. STANDARD REINFORCED CONCRETE BOX CULVERTS NO FILL
	SCALE AS NOTED — MAR. 30, 1931 — CONTRACT
	MADE BY A.L.G. & W.J.M. TRACED BY W.J.M. & A.L.G. CHECKED BY [illegible] CORRECT [illegible] 5/4/31 BRIDGE ENGINEER APPROVED [illegible] 5/4/31 CHIEF ENGINEER
	SHEET NO. OF