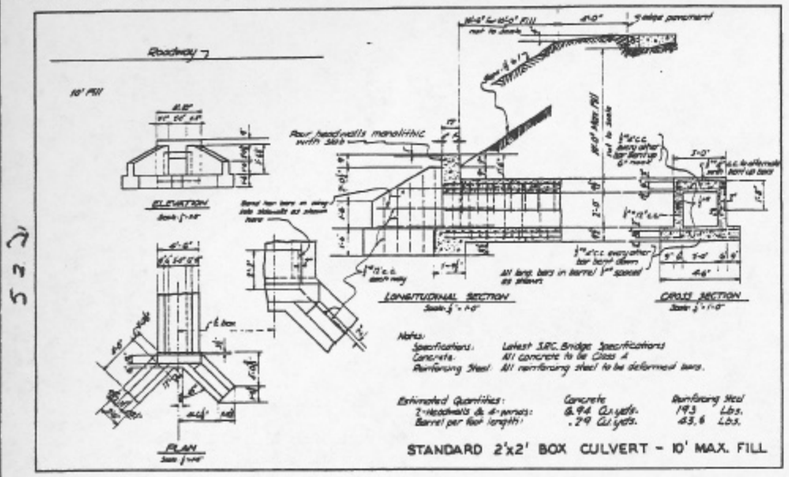

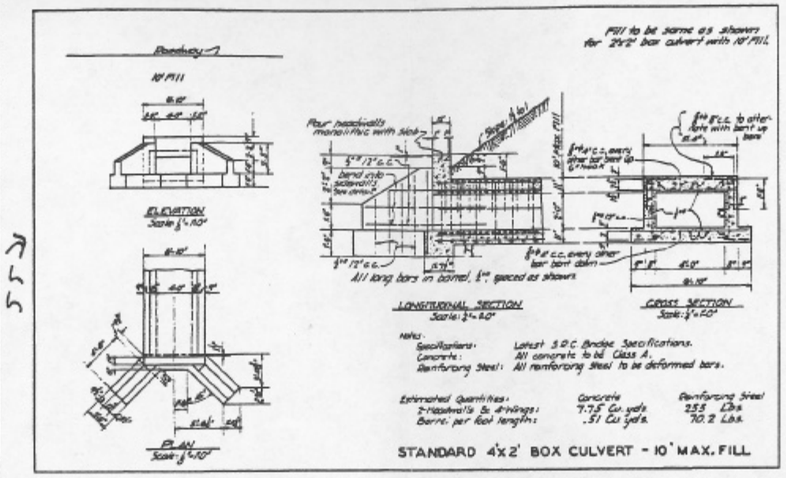

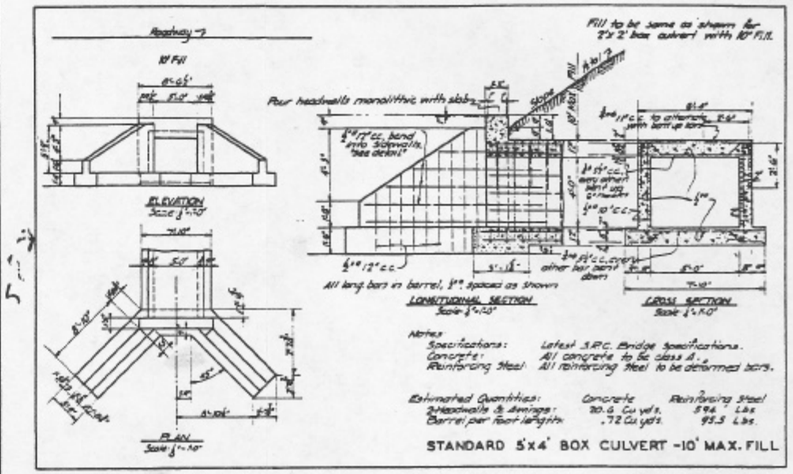

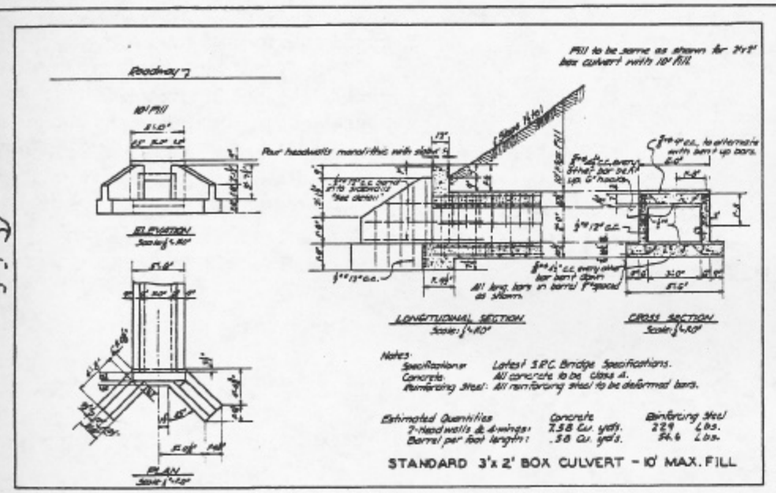

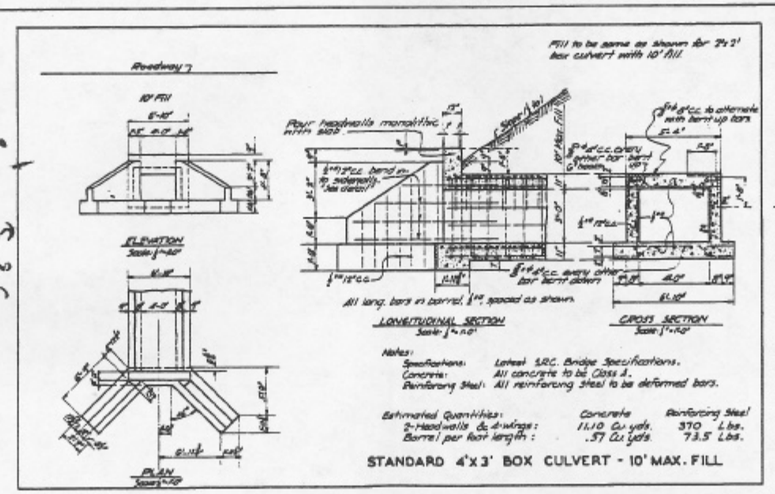

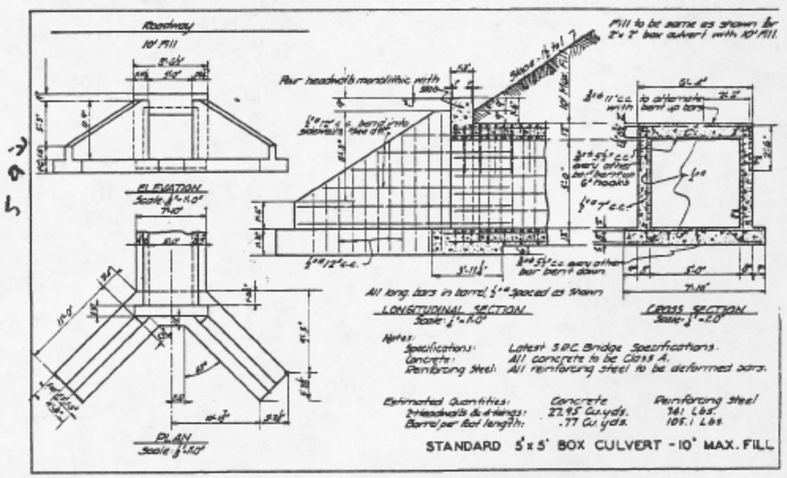

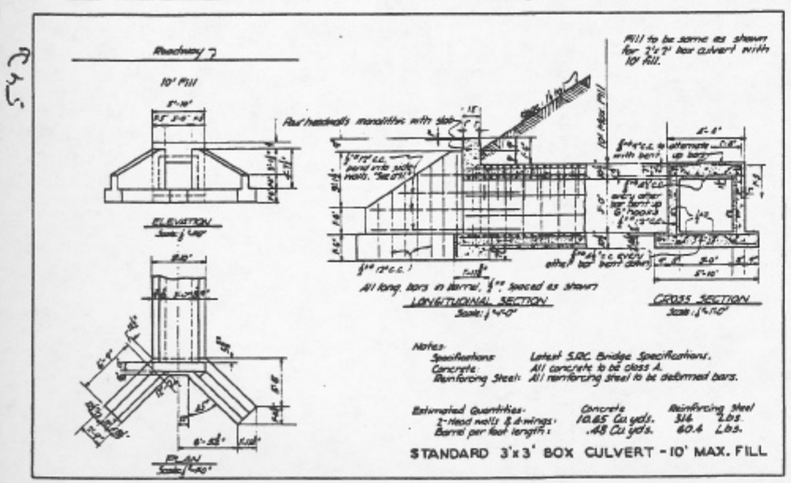

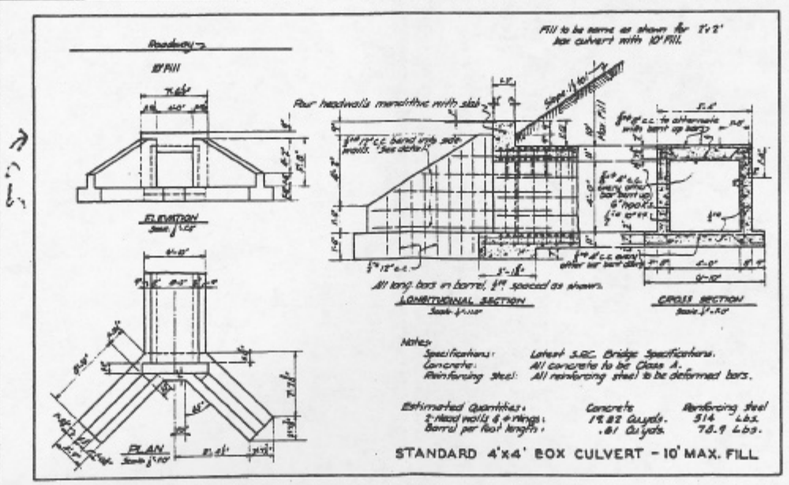

General Notes:

Loading:- H-20 truck loading as per U.S. Bureau Public Roads, Bulletin No 1259

Impact:- 15% of L.L. for all fills from 5'0" to 10'0"

Dead Load:- All culverts on this sheet designed for 10'0" Fill (Earth = 100 lbs. per cu. ft.) and 225 lbs. per foot of span (top slab) for Concrete and wearing surface.

Live Load:- Total L.L. acting on a foot length of barrel obtained by dividing truck rear wheel (16,000 lbs.) by transverse distribution given in table below: This load is assumed to act as a uniform load over the clear span. Distribution, uniform L.L. and Impact increment for various spans given in table below (for fills from 5' to 10' only.)

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 dist. c. to c. supports.

Unit L.L. for barrels with 5" to 10' Fills.

Span	Distribution	Unit L.L.	15% Imp.	L.L.+Imp.
2'-0"	1.25	6400#	960#	7360#
3'-0"	1.85	3470	520	3990
4'-0"	2.00	2000	300	2300
5'-0"	2.15	1490	225	1715

REVISIONS

STATE OF MARYLAND
STATE ROADS COMMISSION
BALTIMORE, MD.

STANDARD
REINFORCED CONCRETE BOX CULVERTS
10' MAXIMUM FILL

SCALE As Noted | April 16, 1931 | CONTRACT

MADE BY A.L.G.
TRACED BY A.L.G.
CHECKED BY W.J.M.
CORRECT
5/4/31
BRIDGE ENGINEER

APPROVED
5/4/31
CHIEF ENGINEER

SHEET NO. OF