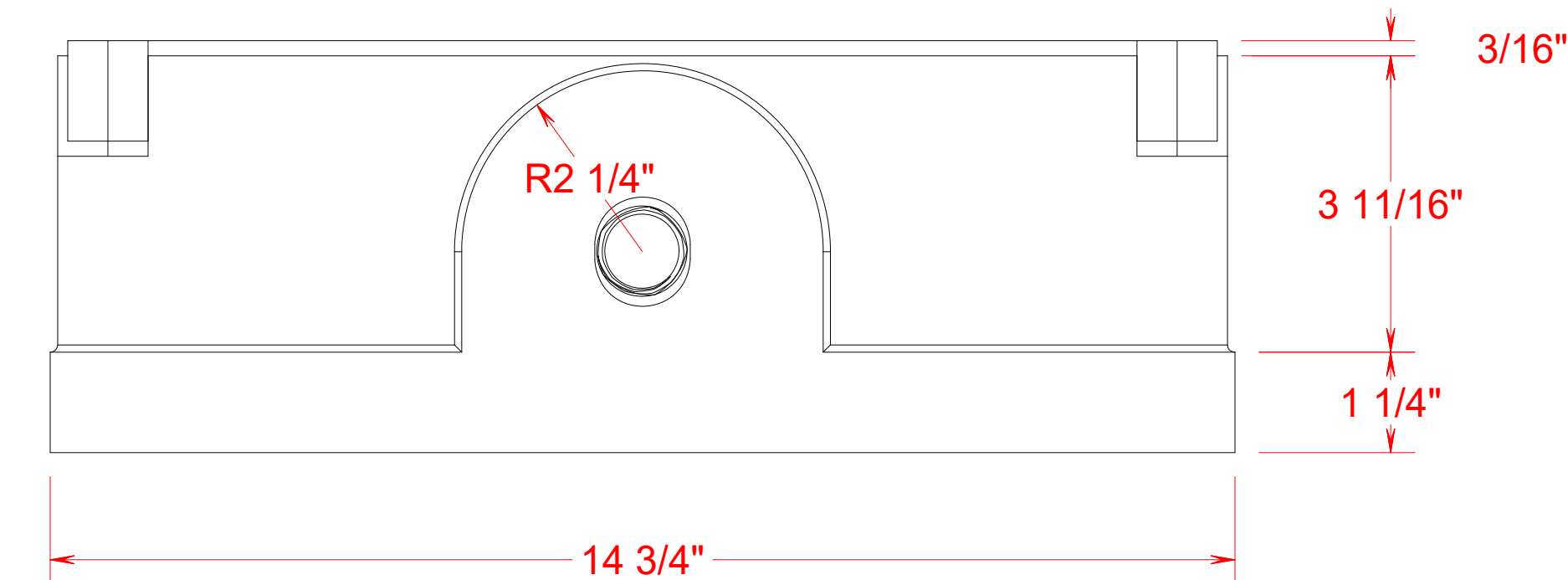
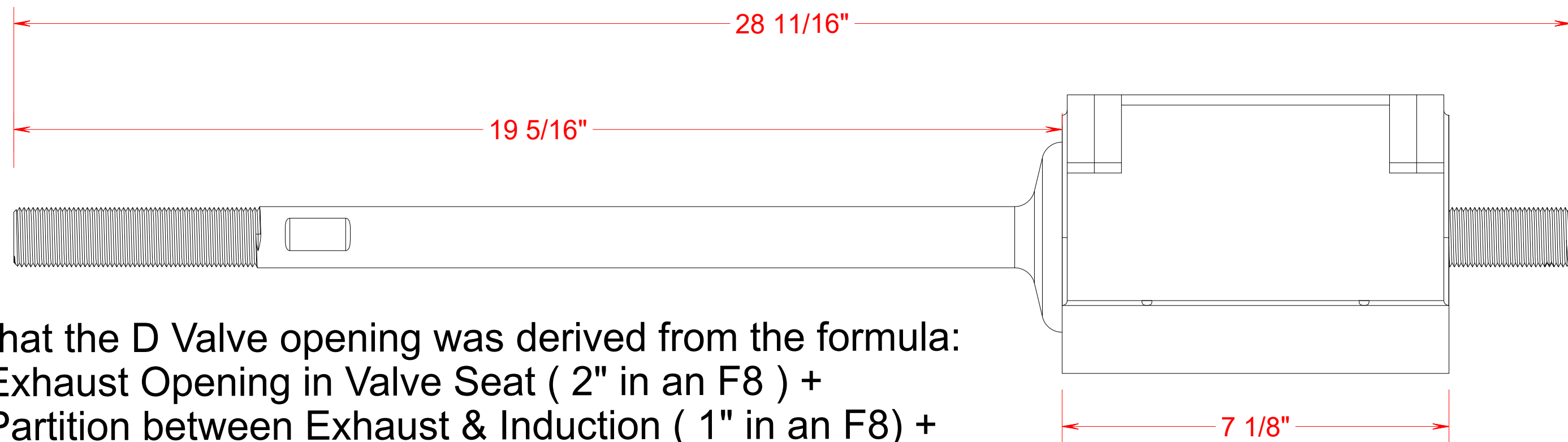
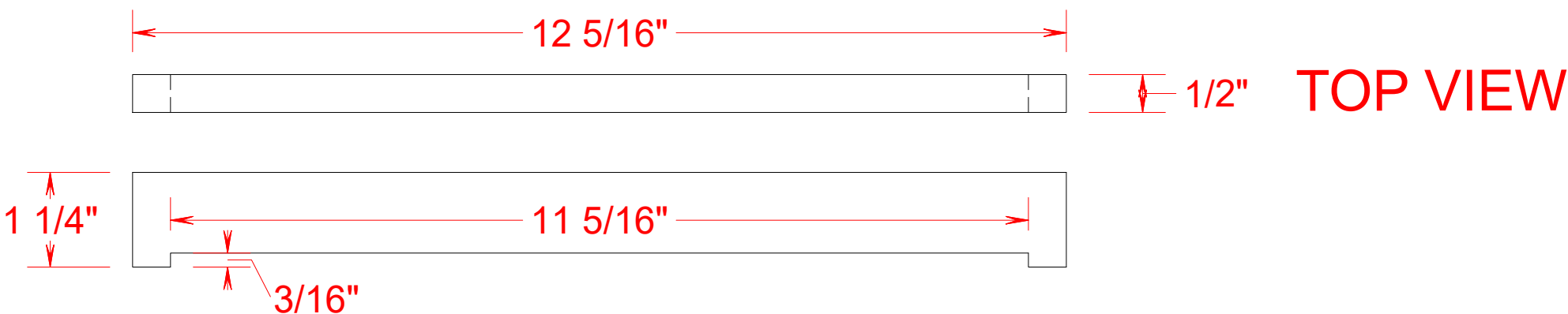
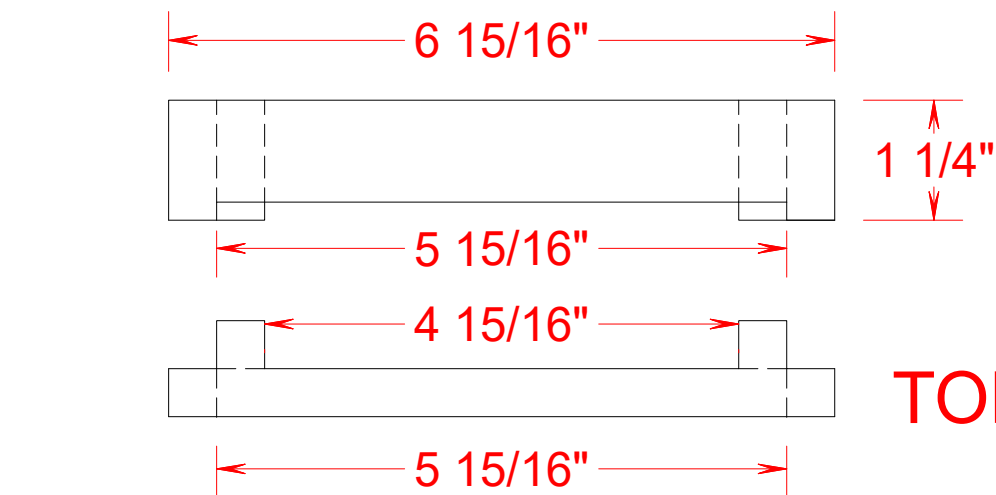
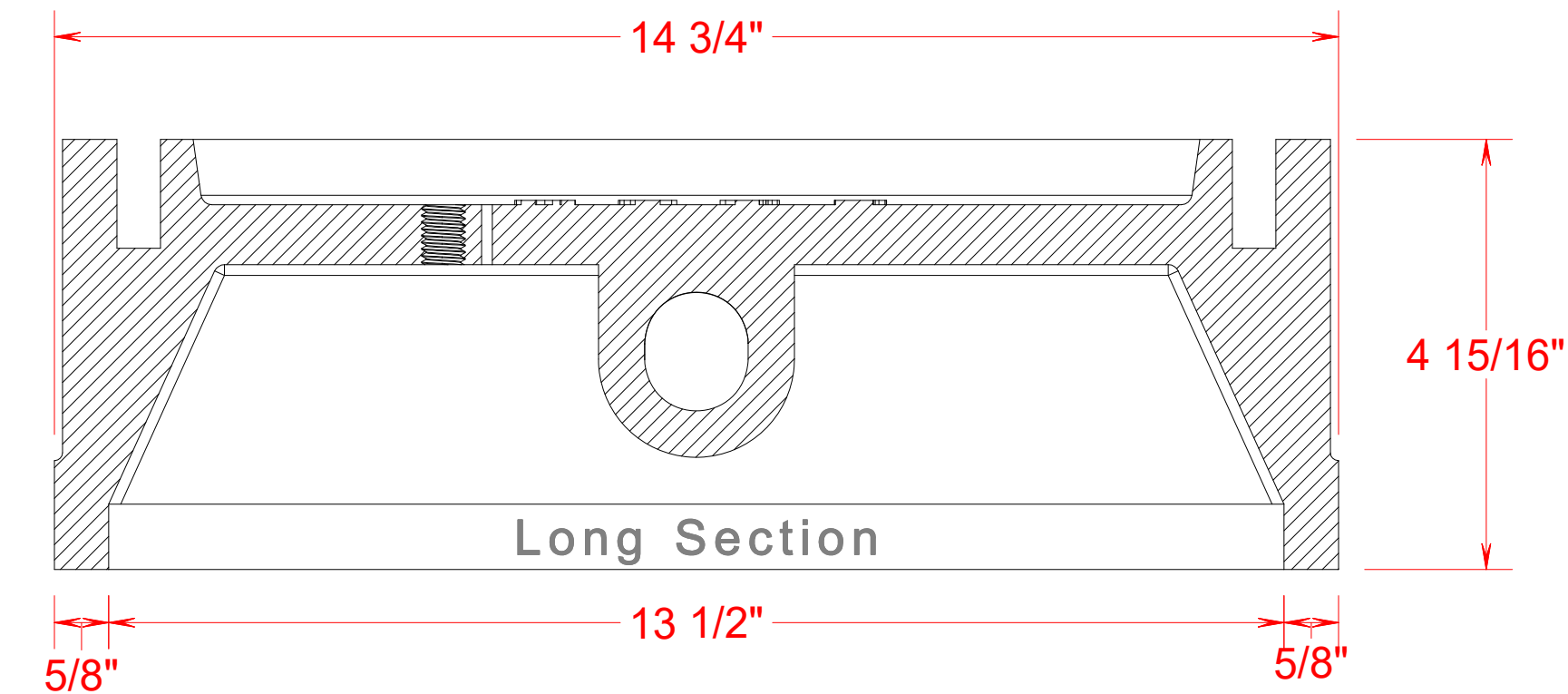
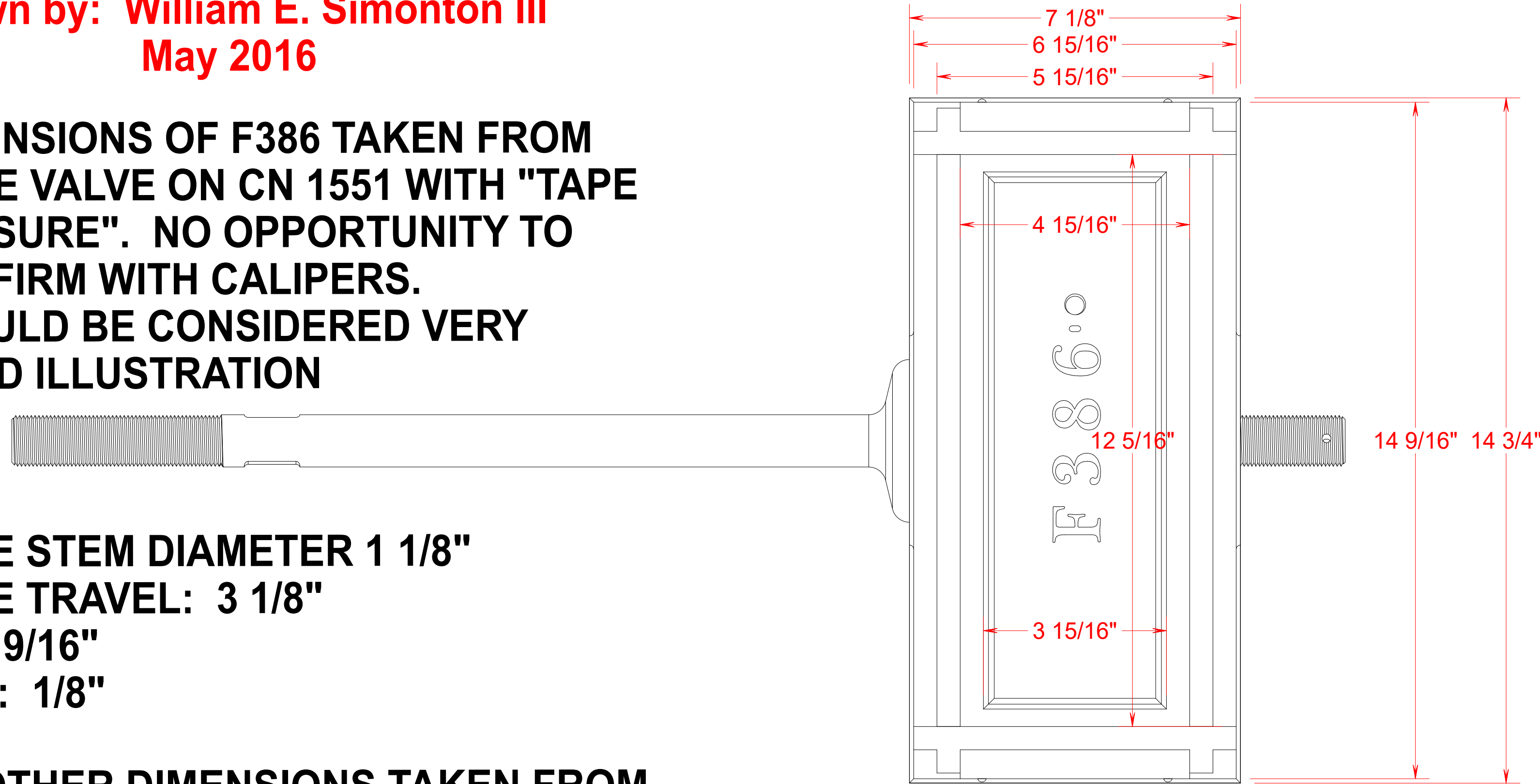


Drawn by: William E. Simonton III
May 2016

DIMENSIONS OF F386 TAKEN FROM
SLIDE VALVE ON CN 1551 WITH "TAPE
MEASURE". NO OPPORTUNITY TO
CONFIRM WITH CALIPERS.
SHOULD BE CONSIDERED VERY
GOOD ILLUSTRATION

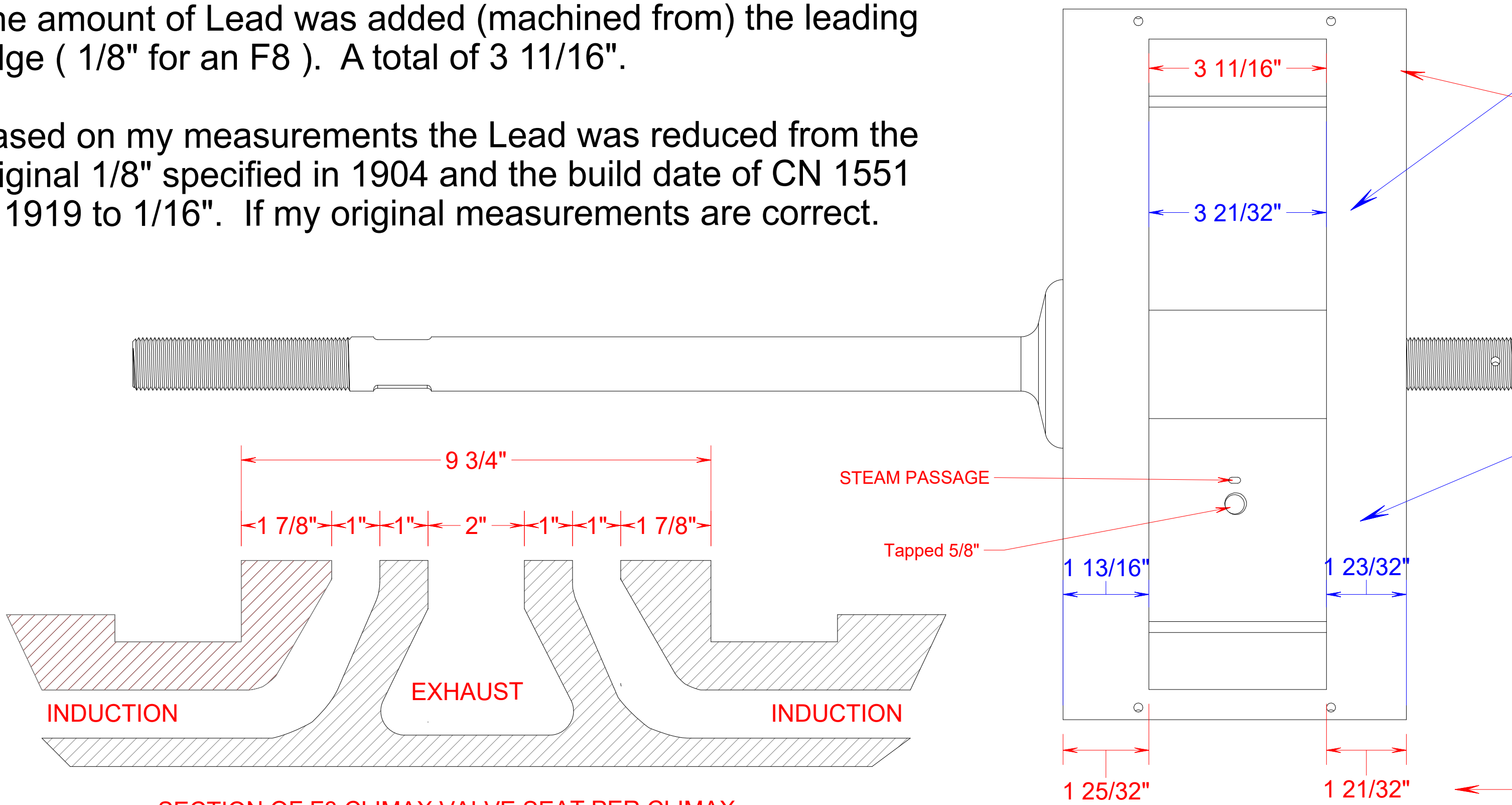
VALVE STEM DIAMETER 1 1/8"
VALVE TRAVEL: 3 1/8"
LAP: 9/16"
LEAD: 1/8"

ALL OTHER DIMENSIONS TAKEN FROM
VALVE STEM & VALVE



I believe that the D Valve opening was derived from the formula:
Width of Exhaust Opening in Valve Seat (2" in an F8) +
Width of Partition between Exhaust & Induction (1" in an F8) +
Amount of Lap called specified (9/16") = 3 9/16" Centered.
The amount of Lead was added (machined from) the leading
edge (1/8" for an F8). A total of 3 11/16".

Based on my measurements the Lead was reduced from the
original 1/8" specified in 1904 and the build date of CN 1551
in 1919 to 1/16". If my original measurements are correct.



BLUE DIMENSIONS MEASURED

NOTE
CLIMAX DWG. F458
FOR A 15" VALVE
SHOWS SIMILAR
OFFSETS, I.E.
3 19/32" EXHAUST
VALVE OPENING &
1 29/32" & 1 15/16"
ON EITHER SIDE.

