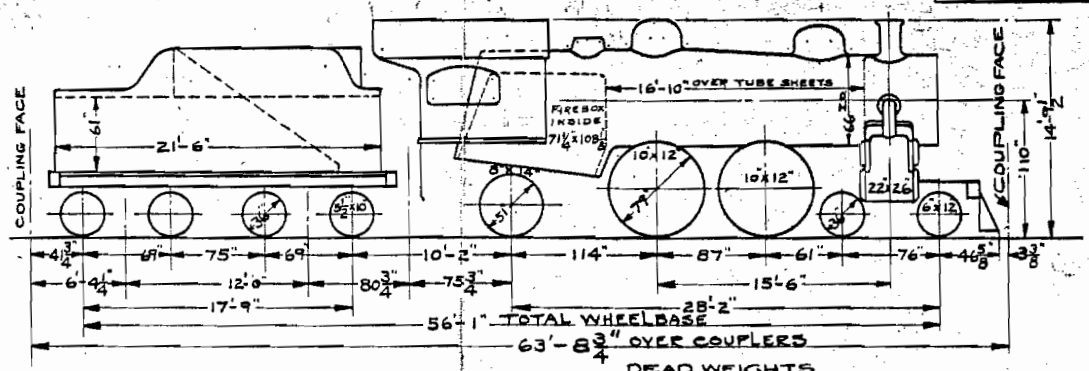
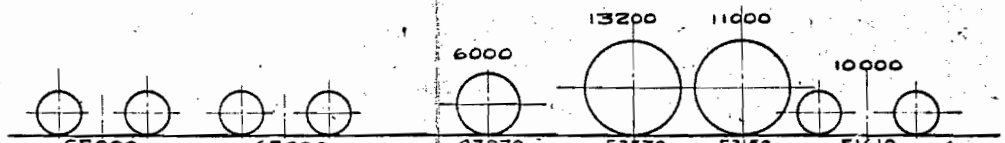
ENGS. 1100-1111	CL. CLASS H-10
	DIAGRAM
	BK. 5625

JAN. 2, 1929.

N.Y.N.H.&H.R.R.CO. MECH. ENG'RS. OFFICE.



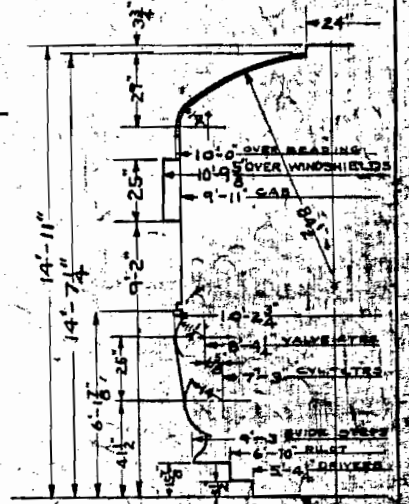
DEAD WEIGHTS



TOTAL WEIGHTS-LBS.

336200

ALL WEIGHTS FOR ENGINE AND TENDER IN WORKING ORDER



CORRECT

Kenneth Carlton
AME.

APPROVED

M.E.

ITEM	BOILER	HEATING SURFACE	LENGTH OVER TUBE SHEETS	DIA.	GAUGE OR THICK
1	BOILER TUBES - 205 - SPACING 11/16"	1798	16'-10"	2"	#12 MIN.
2	BOILER FLUES - 28 - SPACING 11/16"	675	16'-10"	5½"	#10 MIN.
3	TOTAL TUBES & FLUES	2473	—	—	—
4	FIREBOX PROPER	185	—	—	—
5	COMBUSTION CHAMBER	—	—	—	—
6	ARCH TUBES - 4	28	9'-1"	3"	#8 MIN.
7	TOTAL FIREBOX	213	—	—	—
8	TOTAL EVAPORATING HEATING SURFACE	2686	—	—	—
9	TOTAL SUPERHEATING HEATING SURFACE	538	—	—	—
10	TUBE SHEETS FT. 7/8" BK. 1/2"				
11	GRATE AREA			53.5 SQ FT.	
12	WEIGHT WATER 2 GAUGES				
13					
14					
15					

DESIGN DATA		GENERAL DATA	
CALCULATED EVAPORATION LBS./HR.		BOILER PRESSURE	190 LBS.
TUBES @ 9.11 LBS.	16380 LBS.	TRACTIVE EFFORT	25725 LBS.
FLUES @ 10.96 LBS.	7400 LBS.	FACTOR OF ADHESION	4.14
FIREBOX @ 55 LBS.	10178 LBS.	MAX. CURVATURE	22°
COMBUSTION CHAMBER	—	ENGINE TRUCK SWING	2¼"
ARCH TUBES @ 55 LBS.	1540 LBS.	TRAILING TRUCK SWING	—
TOTAL EVAPORATION	35498 LBS.	COAL CAPACITY	14 TONS
ST. CONSUMPTION (1655 X 20.8)	34420 LBS.	WATER CAPACITY	6000 GALS.
BOILER FACTOR	103.5%	VALVE GEAR	WALSCHAERTS
FIREBOX H.S. TO GRATE AREA	4.0%	MAX. CUTOFF	84.37%
TOTAL EVAP. H.S. TO FIREBOX H.S.	12.6	THROTTLE - DOME TYPE - IN. CONN.	
TOTAL EVAP. H.S. TO SUPHTG. H.S.	5.0		
ASH PAN AIR OPENINGS / GAS AREA THRU TUBES & FLUES	61%		
FRAME CTRS: 43" FRAME WIDTH 42"			

DR.	TR.	CK.	IN
J.	E.J.	JDS	BJ