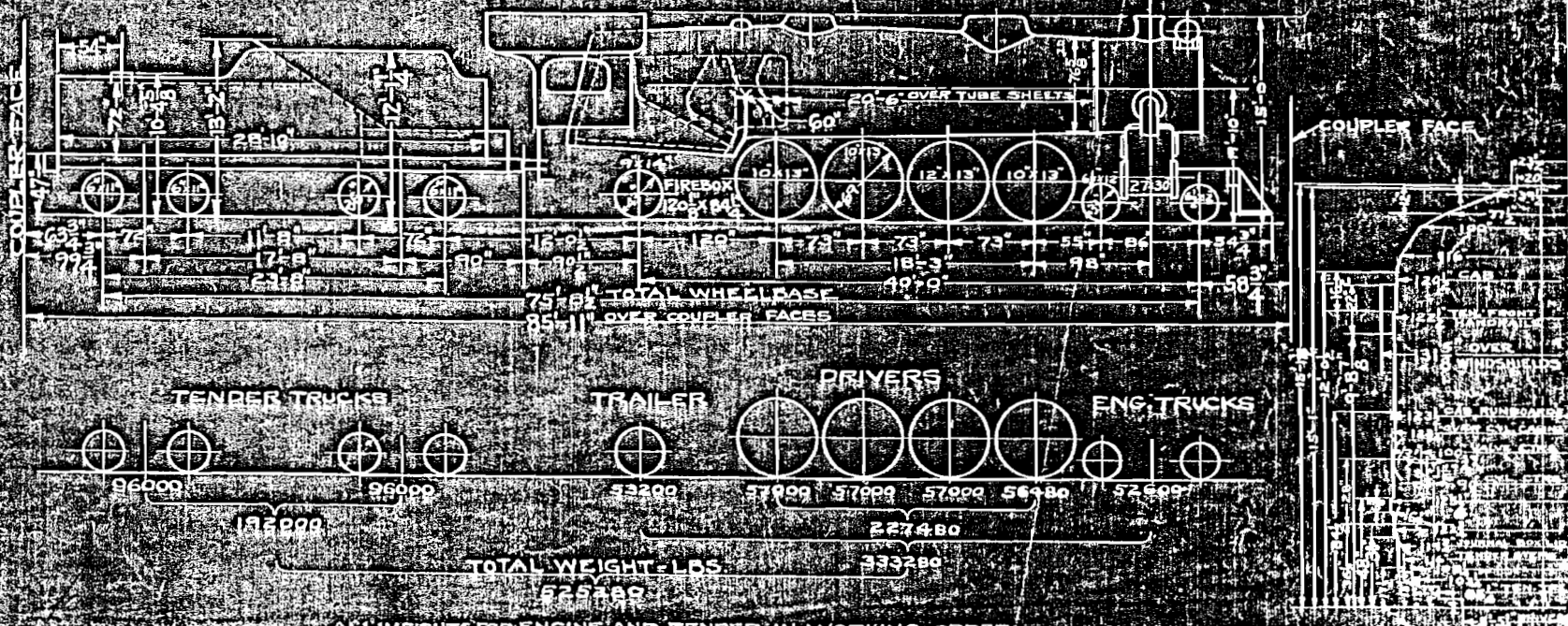
| TENDER W-10-B | ENG. NO. 3307 | CLA[illegible]R-1 LOCO |
|---|---|---|
| | FEEDWATER HEATER | DIAGRAM |
| | | SK. No. 5640 |




ALL WEIGHTS FOR ENGINE AND TENDER IN WORKING ORDER

CORRECT

APPROVED

| ITEM | BOILER | HEATING SURFACE | LENGTH | DIA. | GAUGE OR THICK. |
|---|---|---|---|---|---|
| 1 | BOILER TUBES - 216 SPACING 11/16 | 2597 | 20'-6" | 2 1/4 | 12 MIN |
| 2 | BOILER FLUES - 40 SPACING 5/8 | 1176 | 20'-6" | 5 1/2 | 10 MIN |
| 3 | TOTAL TUBES & FLUES | 3773 | | | |
| 4 | FIREBOX PROPER | 214 | | | |
| 5 | COMBUSTION CHAMBER | 106 | | | |
| 6 | SYPHONS - 2 FIREBOX - 1 COMB. CHAMBER | 95 | | | |
| 7 | TOTAL FIREBOX | 415 | | | |
| 8 | TOTAL BOILER & FIREBOX | 4188 | | | |
| 9 | SUPERHEATER TUBES | 1009 | | | |
| 10 | TUBE SHEETS - FT. 9/16 - BK. 1/2 | | | | |
| 11 | GRATE AREA | | | 70.3 SQ. FT. | |
| 12 | WEIGHT WATER 2 1/2 GAUGES | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |

| DESIGN DATA | |
|---|---|
| CALCULATED EVAPORATION LBS/HR | |
| TUBES @ 8.52 LBS. | 22130 LBS |
| FLUES @ 9.86 LBS. | 11600 LBS |
| 3 SYPHONS @ 55 LBS. | 5225 LBS |
| COMBUSTION CHAMBER @ 55 LBS. | 5830 LBS |
| FIREBOX @ 55 LBS. | 11770 LBS |
| TOTAL EVAPORATION | 56555 LBS |
| ST. CONSUMPTION (26.4 X 20.8) | 54580 LBS |
| BOILER FACTOR | 104% |
| FIREBOX H.S. TO GRATE AREA | 5.90 |
| TOTAL H.S. TO FIREBOX H.S. | 10.09 |
| TOTAL H.S. TO SUPERHEATER H.S. | 4.18 |
| [illegible] | 108% |
| [illegible] | |

| GENERAL DATA | |
|---|---|
| BOILER PRESSURE | 200 LBS. |
| TRACTIVE EFFORT | 53900 LBS. |
| FACTOR OF ADHESION | 4.[illegible] |
| MAX. CURVATURE | [illegible] |
| ENGINE TRUCK SWING | [illegible] |
| TRAILING TRUCK SWING | [illegible] |
| COAL CAPACITY | 16 TONS |
| WATER CAPACITY | 10000 [illegible] |
| VALVE GEAR | BAKER |
| STOKER | LT-1 CONVERSION |
| FEEDWATER HEATER | [illegible] |
| THROTTLE-CHAMBER & DOME TYPE INSIDE CONN. | |
| MAX. CUT OFF | 85.[illegible] |