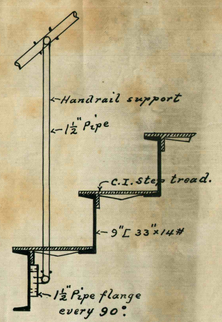
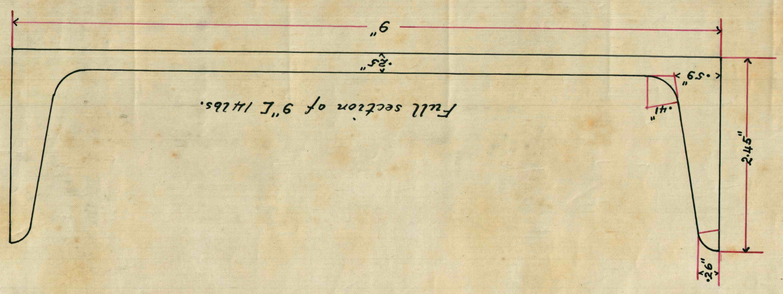
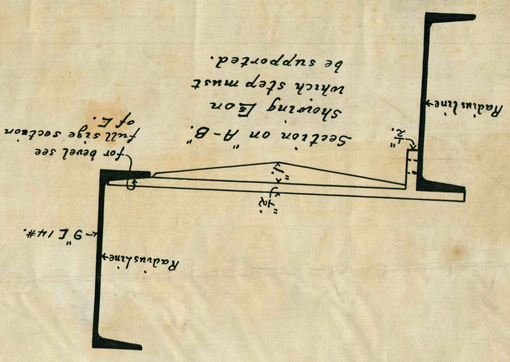


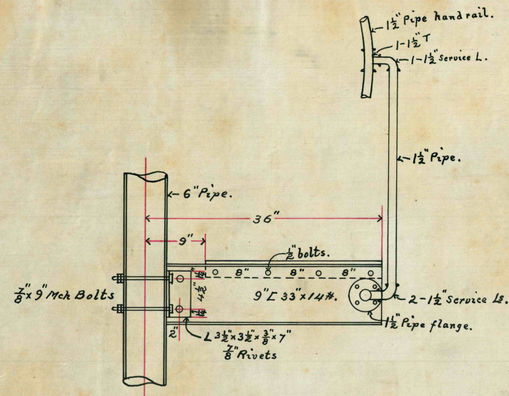

Section through steps at average tread.



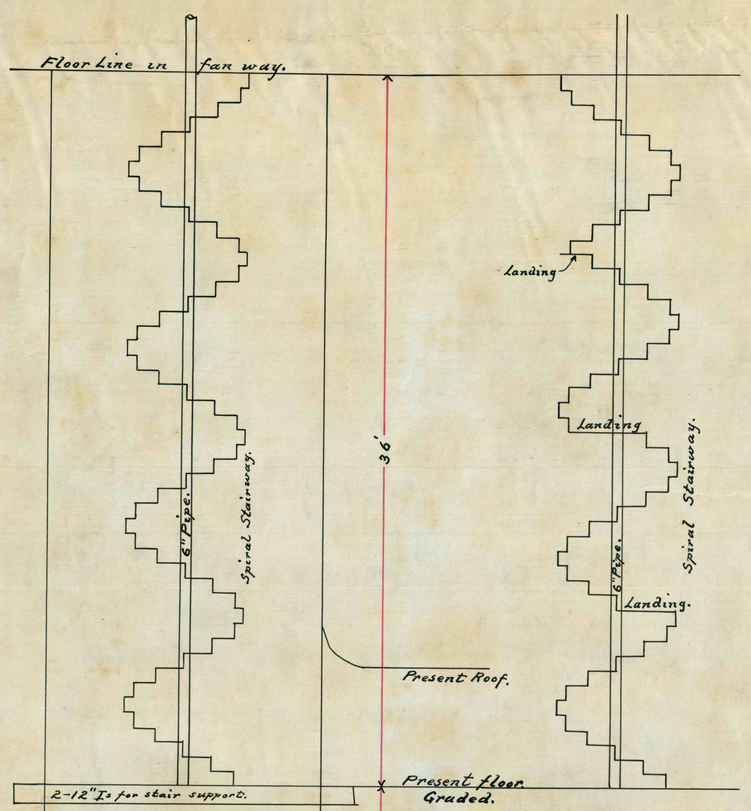

Full section of 9" L 14#s.



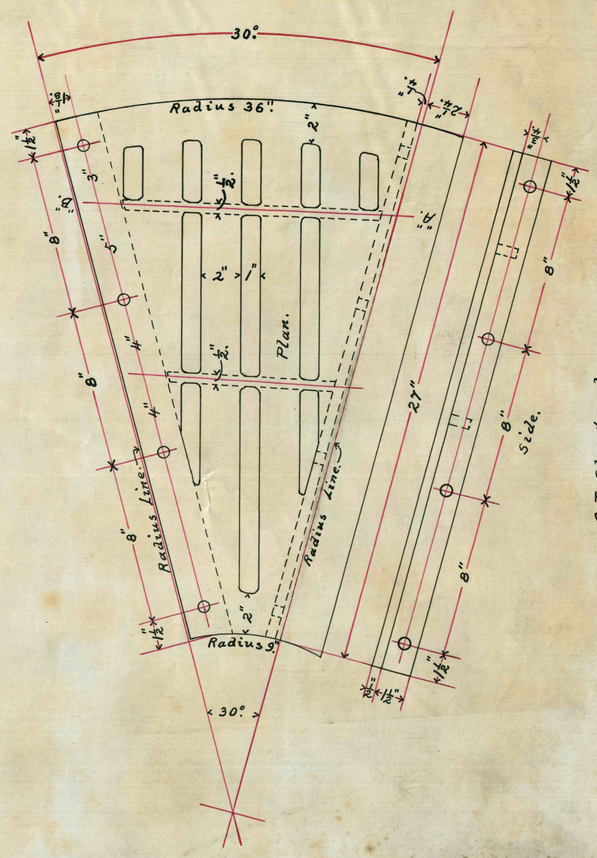

Section on "A-B." Showing L on which step must be supported.

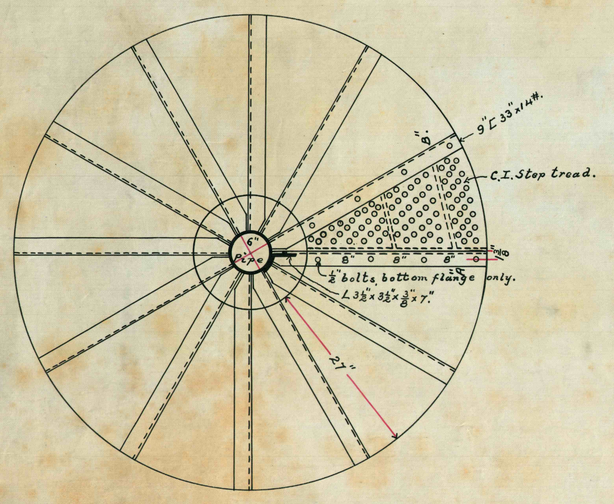



Elevation showing L connections.

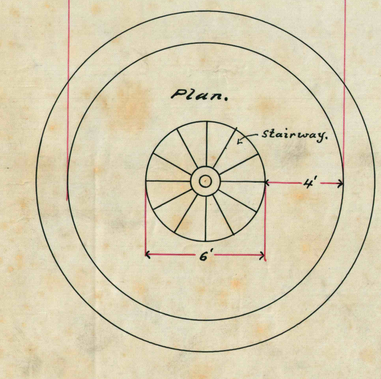



Elevation.

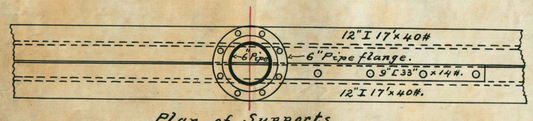



Plan of Steps.




New Fan Shaft.
Scale 1"=4'.




Plan of Supports.

Scale 1"=1'.

Material:-

| | | | |
|---|---|---|---|
| 2 - 12" Is 17' x 40# | = | 1360 lbs | 20 - 1½" Pipe flanges. |
| 50 - 9" B. 33" x 14# | = | 1925 " | 60 - 1½" Service ls. |
| 50 - L 3½" x 3½" x ⅜" x 7" | = | 250 " | 20 - 1½" Ts. |
| 6" Pipe 45'± | = | 810 " | |
| 1½" " 180'± | = | 490 " | |
| Pipe fittings | = | 110 " | |
| Steps. C.I. 50. | = | 2900 " | |
| Bolts ⅞" x 9" x ½" x 2" | = | 350 " | |
| Rivets ⅞" x 1¼" - 100 | = | 50 " | |
| | | 8245 " | |
| Cement | | 500 " | |
| Men | | 4500 " | |
| | Total | 13245 " | |
| | to be supported. | | |

Bolts. 280 - ½" x 2" Mch, & nuts.
100 - ⅞" x 9" "
200 - ½" x 1½" " & nuts.
200 - ⅞ Nuts.

Spiral Stairway.
Mine #3.
Penn Gas Coal Co.
3-19-1910.