tury.

Could these ancient builders re-visit ern Pacific. the earth from that realm to which their edge among the masses; the railroad, construction of the road. uniting, with bands of steel, countries The company was very anxious to esingness.

nificant, compared with the achieve- es on a sinuous trail, clings to the face ments of modern times. They show of precipices upon a narrow shelf blastwhat can be accomplished by the des- ed from the solid rock, and crosses the potic ruler of millions of people, with summits of mountain ranges at altitudes the stolen wealth of nations at his com- bordering upon the region of perpetual mand; a ruler who counts the lives of snow. But let him journey from one his subjects as nothing when weighed end of the continent to the other, he can against his slightest whim. They do not find such another piece of eccentric not, however, keep pace with the grand railroading as that which he will experimarch of science in this nineteenth cen- ence in crossing the Cascade mountains by the famous switchback on the North-

When the Northern Pacific finally sespirits have fled, and behold the mighty lected its route across the Cascade mounachievements of our present age, they tains by the Stampede pass, the engiwould be rendered speechless with an neers, in order to save a long and tortuastonishment bordering upon awe. The ous line across the mountains, expensive mighty steamship, plowing the ocean at to construct and operate. located a tunrace-horse speed; the telegraph, flash- nel, nine thousand eight hundred and ing intelligence around the world with fifty feet long, through the heart of the the rapidity of thought; the telephone, highest peak in the pass, at a level of carrying articulate speech instantly to eleven hundred feet below the lowest distances farther than many of them point on the summit. The estimated ever traveled; the electric light, dispell- time necessary to complete the tunnel ing the darkness like a mid-night sun; was two and one-half years, more than a the printing press, disseminating knowl- year longer than was required for the

of which they never dreamed; great en- tablish the route across the Cascades as gines and substances of destruction, ca- speedily as possible, and so referred the pable of razing to the ground in a brief question of a line over the summit to period the mightiest structure their Adna Anderson, chief engineer. The hands ever reared; these seven only, of problem was to overcome an elevation the multitude of the products of science of eleven hundred feet in less than two which have become so common to us miles, the length of the tunnel. The enthat we cease even to think of them, gineer reported he could carry the line would be classed by them as the "seven over the mountain on the "switchback" miracles of the world," beside which their principle, by building seven miles of "seven wonders" would sink into noth- track, about one-half on each side of the summit, with an average grade of near-Of the achievements of modern sci- ly three hundred feet, and at a cost of ence, the feats of railroad engineering \$300,000.00. The original cost of conrank among the first. The traveler of to- struction, provided the plan was adoptday is carried through tunnels that pierce ed, did not by any means represent the the rocky hearts of mountains, is sus-expense incurred. The purchase of lopended at dizzy heights above deep comotives of enormous power, and the gorges and turbulent rivers, on trestles expense of operating such a line, where and bridges, threads the mountain maz- but a few cars could be handled at a