AVALANCHES AND SNOW SHEDS.

NOW slides are among the dangers track and carried it down the mountain. lanche two hundred feet deep struck the the trains.

to be encountered in operating rail- across the valley and up the other side, roads through high mountain pass- opposite its former position, and there es. Early in its history, the Central Pa- the disjointed track was found when the cific road learned that it would be im- snow melted in the spring. One can impossible to keep its line open for traffic agine the fate of a train which might in the winter season, unless it were pro- unfortunately stand in the pathway of tected from avalanches, which either such a snowy giant. Snow sheds are so swept it away entirely, or buried it be- constructed that the one-sided roof will neath a mass of snow, timber and rocks, slant upwards at the same angle as the which required much time, labor and mountain, to which it is firmly secured. expense to remove. Long stretches of By this means, the avalanche is guided snow sheds, constructed of heavy tim- on its way, so that it passes over the bers secured together by iron bolts, were track and down into the valley without built at the most exposed places, over a doing any damage whatever. In order stretch of forty miles of track, the sheds to withstand the shock and bear up the costing an average of \$10,000.00 per enormous weight of snow, these sheds Happily, the Northern Pacific must be as strong as wood and iron can and Oregon Short Line have but a small make them. To construct one mile of portion of their lines exposed to these shed, requires more than six million feet destructive avalanches. The Canalian of timbers, sixty-two thousand bolts, Pacific, however, is not so fortunate. In thirty inches long, and two hundred the Rocky and Selkirk mountains, there thousand spikes, ten inches in length. are many miles of track exposed to their In the engraving on another page, the ravages, and the company has been com- artist has given a graphic picture of one pelled to erect many expensive sheds of these tremendous slides, as it is carfor its protection. One of these snow ried, by the shed, over the top of a passslides is a grand and terrible sight to ing train. Thanks to these staunch prowitness. In the depressions between tections, travel in the mountains is now the mountain peaks, the snow accumu- as safe as on the plains, so far as danger lates until something starts the mass from snow is concerned. Those portions downward. It slides slowly at first, of the track not exposed to snow slides, cathering speed and volume as it goes, are cleared of the snow which falls and until, at last, it rushes down the steep drifts upon them, by huge snow plows. slope with enormous momentum and With the sheds and the plows, at great great velocity, carrying rocks and trees expense, the roads are kept open through with it, and carving out a deep channel the mountains during the winters, only in the mountain. Down into the valley being occasionally blockaded for a few it rushes, across it and up on the other days, when some storm of more than orside until its force is spent. At one dinary severity deffes the greatest efpoint on the line, a year ago, an ava- forts to maintain a clear passageway for