of remarkably fine quality. Foundations, rock and timber, each in part. Superstructure, timber and iron. Fink's truss.

Cost of Masonry, ($6 per perch,) . . .	$9,654
Cost of Superstructure, ($54 per foot,) . . .	16,580
Total cost of Viaduct, ...	$26,234

Tray Run and Buck-Eye Hollow Viaducts, one and a half miles west of the Cheat river crossing, and seventy-seven miles from Cumberland. These structurs are of cast iron, connected by wrought iron bolts and rods. They consist of columns, inclined so as to give greater width of base and more stability, connected by arches of open work, the whole system firmly united by proper ties. The columns rest on pedestals supported on the stone walls built across the deep beds of the two ravines mentioned, and which walls it was originally designed to continue up to the road level. The length of the Tray Run Viaduct is 445 feet, and its height from the top of the wall 58 feet. Width on top, between parapet railings, (which are 4 feet high,) 28 feet. Floor of heavy planking between the floor beams supporting the rails.

The Buck-Eye Hollow Viaduct is 340 feet long and 46 feet high from top to wall—width and finish on top same as the other.

Cost of Tray Run Viaduct—	Stone Work, . .	$7,579	
	Iron " . .	28,470	
			$36,049
Cost of Buck-Eye Hollow—	Stone Work, . .	$5,825	
	Iron " . .	18,300	
			24,025
Total of the two, ...			$60,074

Those beautiful and substantial structures were designed by Mr. Albert Fink, my present principal assistant, whose talents and taste have been nowhere displayed to greater advantage than here.

Monongahela Viaduct, one mile above Fairmont and $122\frac{1}{2}$ miles from Cumberland. Three spans of 200 feet each, on a skew line of 36 degrees from the perpendicular. Height of floor from low water, 38 feet. Abutments and piers of grey sandstone. Foundations rock, and those of the piers, especially the eastern, being very difficult, owing to the deep deposit of sand and logs in the river bed. Depth from low water surface to rock 22 feet. Superstructure altogether of iron excepting floor beams. Fink's suspension truss. The track was carried across the river upon a trestle bridge 12 months before the viaduct was finished, and much trouble and expense was incurred in protecting it from and repairing damage to it by floods which were frequent.

Cost of Masonry, ($14 per inch,)	$98,987
Cost of Superstructure, ($63 per foot,) . . .	39,205
*Total cost of Viaduct, ...	$138,192

Wheeling Creek Viaduct.—Two spans of 75 feet each—height of floor from low water 39 feet—pier and abutments of grey sandstone—foundation on timber protected by sheet piling and heavy stone riprap. The superstructure consists of five trusses, carrying side by side, the five tracks which cross the creek, three of which belong to the freight and two to the passenger station. The trusses are entirely of iron, and underneath the road level. The total breadth of the bridge floor is about 80 feet. The passenger building extends over the two tracks connected with it on the bridge, which thus forms a part of the station.

Cost of Masonry, ($6 75 per perch,)	$48,641
Cost of Superstructure, ($25 per foot of each track,) .	18,762
Total cost of Viaduct, ...	$67,403

Station Buildings.

Piedmont:

Engine House.—A sixteen sided polygon, (for the same number of engines,) 150 feet in diamater—walls of brick on stone foundations; roof of iron, supported from the ground within the walls of the building, by leaning columns resting on stone pedestals, and running up to the lantern. The covering is of sheet iron on light wooden rafters. The peculiarity of the structure is the independence of the roof upon the walls, which are therefore made much lighter. Cost of house, ... $13,064

The roof of this building was erected in winter, at increased cost on that account.

Workshop.—This building is 320 feet long and 100 feet wide, with a transept 150 feet wide, a blacksmith shop occupying one end and car repair shop the other, the engine repairs being done in the intermediate part. The walls are of brick, on stone foundations, and the roof of wood and iron. This is a spacious and convenient structure, built in the best manner, at a cost of . . . $22,902

Water House—Of brick and stone, with three large tank reservoirs, holding 25,000 gallons each—the water raised from the Potomac River by two powerful hydraulic rams. Cost of house, . $2,600

*The cost of this Viaduct has been much exaggerated by reports from its vicinity. A paragraph copied in the Baltimore Sun of July 18, 1853, having made it $490,000!