

Railroad Engineering & Construction Cost Benchmarks USA Location - 2017 Cost Basis:

New & Refurbished High Speed Rail Track costs per Mile / Km, Traffic Control Systems, Signals, Freight Siding Cost Metrics, Detailed Design & Construction Management / Inspection historical benchmarks.

New Railroad Costs:	\$ Low Cost per Mile	\$ High Cost per Mile	\$ Low Cost per Km	\$ High Cost per Km
High speed single track on new stone railroad stone bed	1,595,000	1,815,000	996,875	1,134,375
High speed single track on existing stone railroad stone bed	1,265,000	1,485,000	790,625	928,125
High speed double track on new stone railroad stone bed	2,310,000	2,640,000	1,443,750	1,650,000
High speed double track on existing stone railroad stone bed	2,200,000	2,530,000	1,375,000	1,581,250
Install a Centralized traffic control system - single track	247,500	302,500	154,685	189,065
Install a Centralized traffic control system - double track	357,500	412,500	223,450	257,825
Track Repairs / Improvements	\$ Low Cost per Mile	\$ High Cost per Mile	\$ Low Cost per Km	\$ High Cost per Km
25% replace timber railroad ties & stone	220,000	330,000	137,500	206,250
50% replace timber railroad ties & stone	330,000	440,000	206,250	275,000
75% replace timber railroad ties & stone	440,000	550,000	275,000	343,750
25% replace PCC railroad ties & stone	275,000	385,000	171,875	240,625
50% replace PCC railroad ties & stone	385,000	495,000	240,625	309,375
75% replace PCC railroad ties & stone	495,000	605,000	309,375	378,125
Chain link fencing 8' high(includes both sides)	165,000	220,000	103,125	137,500
Individual Items	\$ Low Cost	\$ High Cost		
High speed turnout - Each	605,000	848,750		

Freight / Passenger siding 1 to 2.5 miles in length - Each		3,425,000
Signals - Each		8,835
Crossing barrier / gate - Each		22,500
Road bed stone ballast 1" to 1.50" cost per ton (supply only) - Ton		42.25
Rail 100 pound LF (supply only) - Lin Ft	33.15	39.25
Pre-Cast Concrete (PCC) ties, 8'6" long x 15" wide x 10" deep -each (supply only) - Each		235
Timber railroad ties, pressured treated 8'6" x 8" x 6" (supply only) - each	74.25	98.25
Tie plates - each (supply only)	10.75	14.25
Track bolts - each (supply only)	3.55	5.15
Rail spikes - each (supply only)	1.045	1.45
Rail stop - each (supply only)	950	1,500
Resurface & re-align existing single line track - LF	19.25	28.25
Detailed Design and Construction Management Fees	Low %	High %
Detailed Design	5.25%	7.50%
Construction Management and Inspection		4.75%
Owner Engineering / Oversight		2.25%
Total	10.00%	14.50%

If you have any questions or comments on this cost per square foot & square meter benchmark report please contact:

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