

Comparison of Single Phase Overhead ("OH") vs. Underground ("UG") Project Costs

8/12/2021

Notes:

GMP used data from 8 in-service projects from around the state (4 overhead, 4 underground) to come up average with average installed costs per foot and per mile.

Project costs include all internal staff time (i.e. line worker, field designers, etc.), contractors (where used), materials, and accounting overheads.

Overhead ("OH") projects include single phase, covered wire rebuild projects.

Underground ("UG") projects include single phase Cable in Conduit ("CIC") technology projects.

Note - Some of the underground projects that were selected had some overhead construction costs in them (i.e. couldn't bury cable due to ledge).

The costs and miles associated with the overhead construction was removed from the final per foot and per mile cost calculations.

3/22/24 Update to confirm OH and total project footage for combined UG/OH projects

Single Phase - Overhead ("OH") - Covered Wire

GMP Project #	OH Footage	Total OH Project Cost	Total OH Cost / Foot
161842	10,240	\$280,409	\$27.38
159947	9,819	\$435,000	\$44.30
163498	4,578	\$284,721	\$62.19
170828	3,602	\$100,825	\$27.99
Totals:	28,239	\$1,100,955	

Average Cost for Single Phase - Overhead - Covered Wire Construction:

Per Foot	\$38.99
Per Mile	\$205,852

Single Phase - Undergrounding ("UG") - Cable in Conduit ("CIC") Projects

GMP Project #	UG Footage	OH Footage	Total Footage	Total Project Cost (including OH costs)	Underground Material Cost	Total UG Project Cost	Total UG Cost / Foot	Total Project Cost / Foot
147142	4,301	2,455	6,756	\$304,731	\$45,396	\$137,537	\$31.98	\$45.11
174908	1,904	0	1,904	\$62,858	\$13,278	\$76,136	\$39.99	\$33.01
170206	2,015	670	2,685	\$76,878	\$17,729	\$53,761	\$26.68	\$28.63
175717	2,283	2,926	5,209	\$189,810	\$17,772	\$88,992	\$38.98	\$36.44
Totals:	10,503		16,554	\$634,277		\$356,426		

Average Cost for Single Phase - Underground - Cable in Conduit Construction:

Per Foot	\$33.94
Per Mile	\$179,180

Average Cost for Single Phase - Full Project footage including Underground and Overhead Construction:

Per Foot	\$38.32
Per Mile	\$202,307