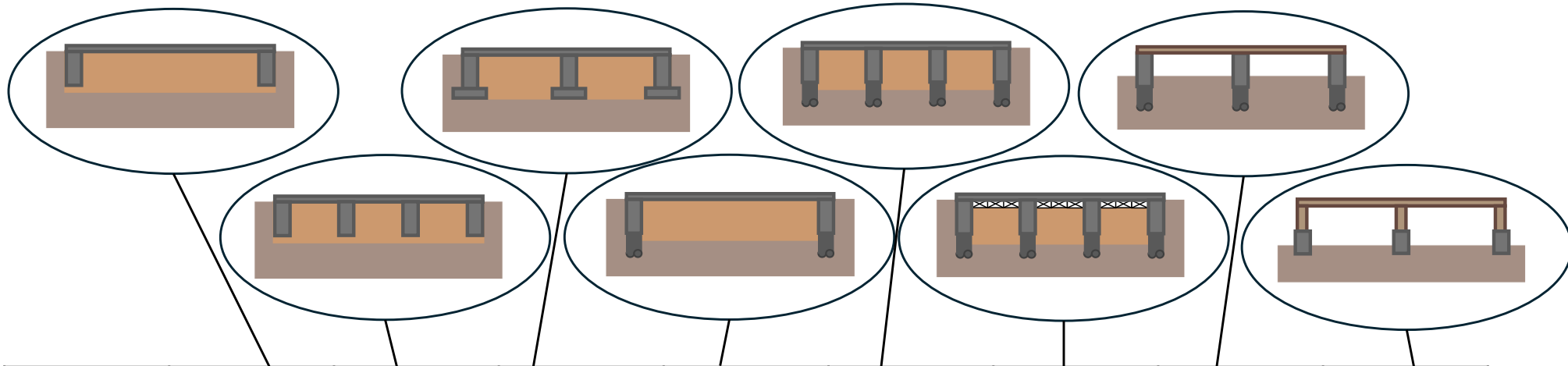


Choosing the right foundation



	Slab on grade	Stiffened slab on grade	Slab on grade with footings	Slab on grade with piers	Stiffened slab on grade with piers	Structural slab on voids with piers	Wood on concrete pier-and-beam with crawl space	Wood on concrete block-and-beam with crawl space
Shallow or deep?	Shallow	Shallow	Shallow	Both	Both	Deep	Deep	Shallow
Potential foundation movement and tilting risk?	High movement risk High tilting risk	Medium movement risk High tilting risk	Medium movement risk High tilting risk	Medium movement risk Medium tilting risk	Medium movement risk (heave) Medium tilting risk	Low movement risk Low tilting risk	Low movement risk Low tilting risk	High movement risk High tilting risk
Type of fill?	Structural fill	Structural fill	Structural fill	Structural fill	Non-structural fill	Non-structural fill	Non-structural fill	Structural fill
Importance of proper compaction?	High importance	High importance	High importance	High importance	High importance	Low Importance	Low importance	High importance
Importance of footing excavation inspection?	High importance (grade beams)	High importance (grade beams)	High importance (footings)	High importance (piers)	High importance (piers)	High importance (piers)	High importance (piers)	High importance (footings)
Cost?	\$	\$\$	\$\$	\$\$\$	\$\$\$\$	\$\$\$\$\$	\$\$\$\$	\$\$\$
Construction effort?	Low	Low	Low	Medium	Medium	High	High	Medium
Structural design effort?	Low	Low	Low	Medium	Medium	High	High	Medium
Expansive soil resistance?	Low	Medium	Low	Low	Medium	High	High	Low
Ventilation?	No	No	No	No	No	No	Yes	Yes
Foundation maintenance program?	Yes	Yes	Yes	Yes	Yes	Reduced	Reduced	Yes