# PWSF OPTION MATRIX

| Option | Coverage Area | Pole Height | Aesthetic | RF/Distance | Co-location | Cost |
|---|---|---|---|---|---|---|
| Triangle Pole (Macro) Antennas (aka – Lattice tower) | 1-2 miles, good coverage & building penetration. These are typically higher power and above clutter. | 60'+ | Poor | RF drops quickly. RF mitigated by height, distance and obstructions | All carriers welcome however each carrier gets a different height which affect coverage. | ~$300,000/Pole Monopole is least expensive option |
| Mono Palm, Eucalyptus, Pine, Flagpole/ Macro | 1-2 miles | 45'+ | Attempted camouflage | RF drops quickly. RF mitigated by height, distance and obstructions | Multi-carrier solution, can be limited by camo. Carriers on diff heights | $400,000-$600,000; |
| Crown O-DAS in Faux Cactus | 400', poor building penetration. Requires many nodes to cover PV | 20-30'. Can be placed in higher nodes. | Excellent | Power mitigates RF distance. RF drops quickly. RF mitigated by height, distance and obstructions | All carriers welcome. EWS feel its unlikely more carriers will join. | ~$30,000-$50,000/node |
| Roof Mount Macro Site | ½ mile | ~24' since max roof height in PV unless permitted in SUP | Excellent | RF drops quickly. RF mitigated by height, distance and obstructions | Limited. Depends on strength and size of roof. | Varies, ~$100,000 |
| Traffic Light, light pole or stand-alone pole (aka small cell when micro) | 400'-600' Requires approximately 30-50 nodes to cover PV | 30-50' | Decent if put antenna and radio in cylinder. Even better if cylinder matches diameter of pole. | RF drops quickly. RF mitigated by height, distance and obstructions | Generally a single carrier solution. One per pole | $30,00-$80,000 per pole |
| Strand Mount Micro | 400' | Height of existing cable strand | Not camouflaged but small and discreet | RF drops quickly. RF mitigated by height, distance and obstructions | ? | $10,000 per box |