$|\sigma_s(V(\mathcal{C}_a^{\ell})) \setminus (V(\mathcal{S}_a^{\ell}) \setminus \{\kappa_a^{\ell}\})| = |\sigma_s(V(\mathcal{C}_b^{\ell})) \setminus (V(\mathcal{S}_b^{\ell}) \setminus \{\kappa_b^{\ell}\})| = 2.$