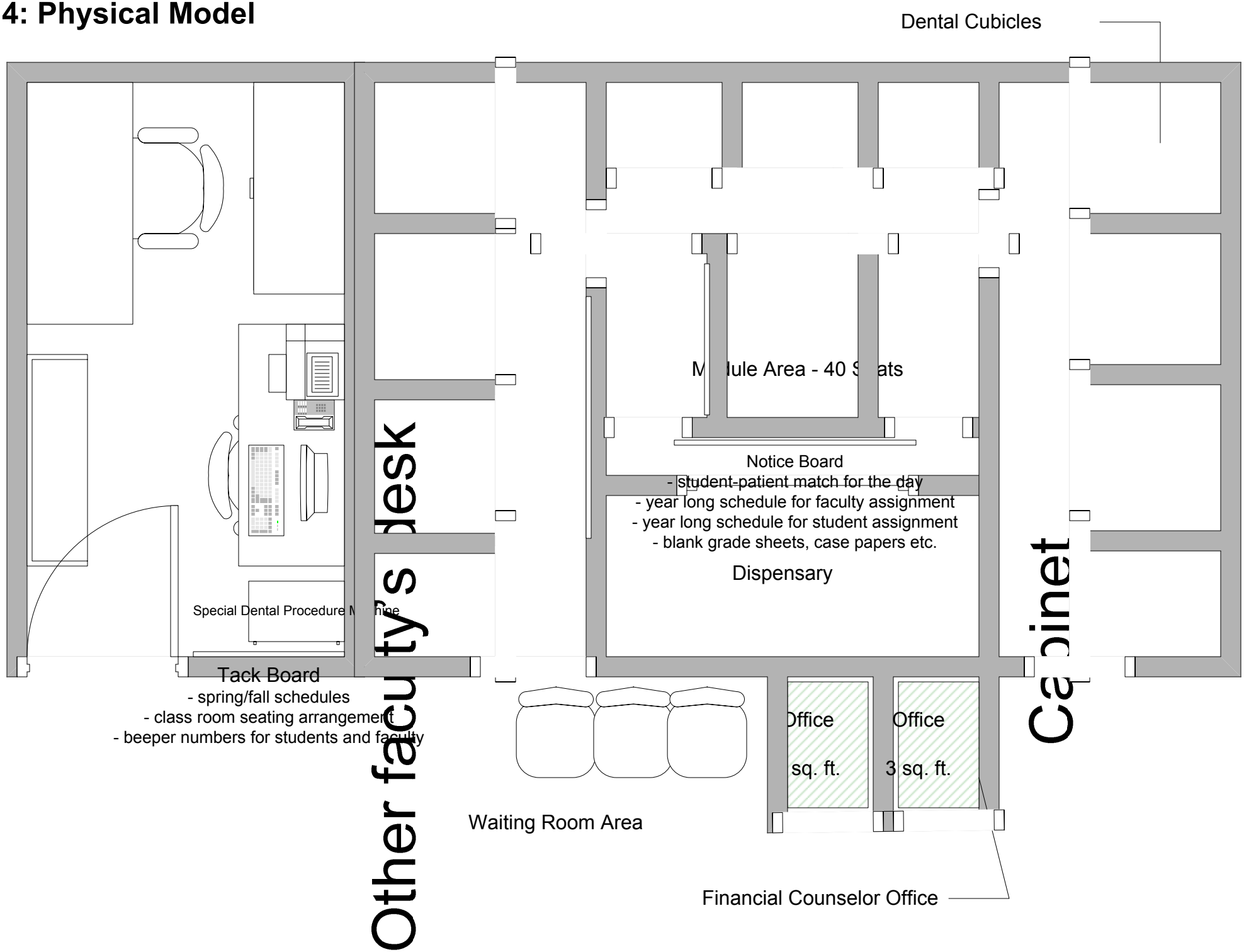# U4: Physical Model