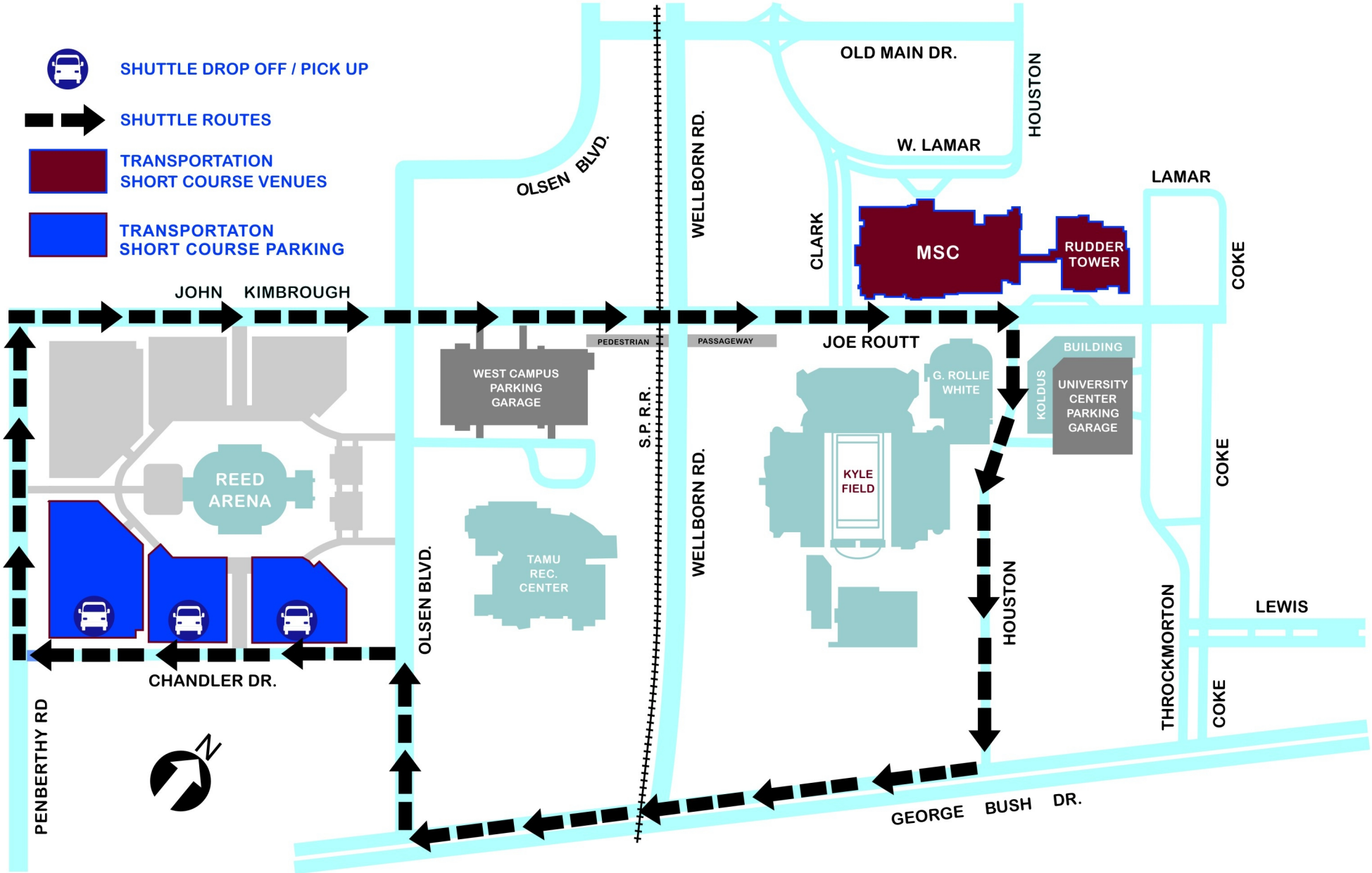MAP: SHORT COURSE 2012