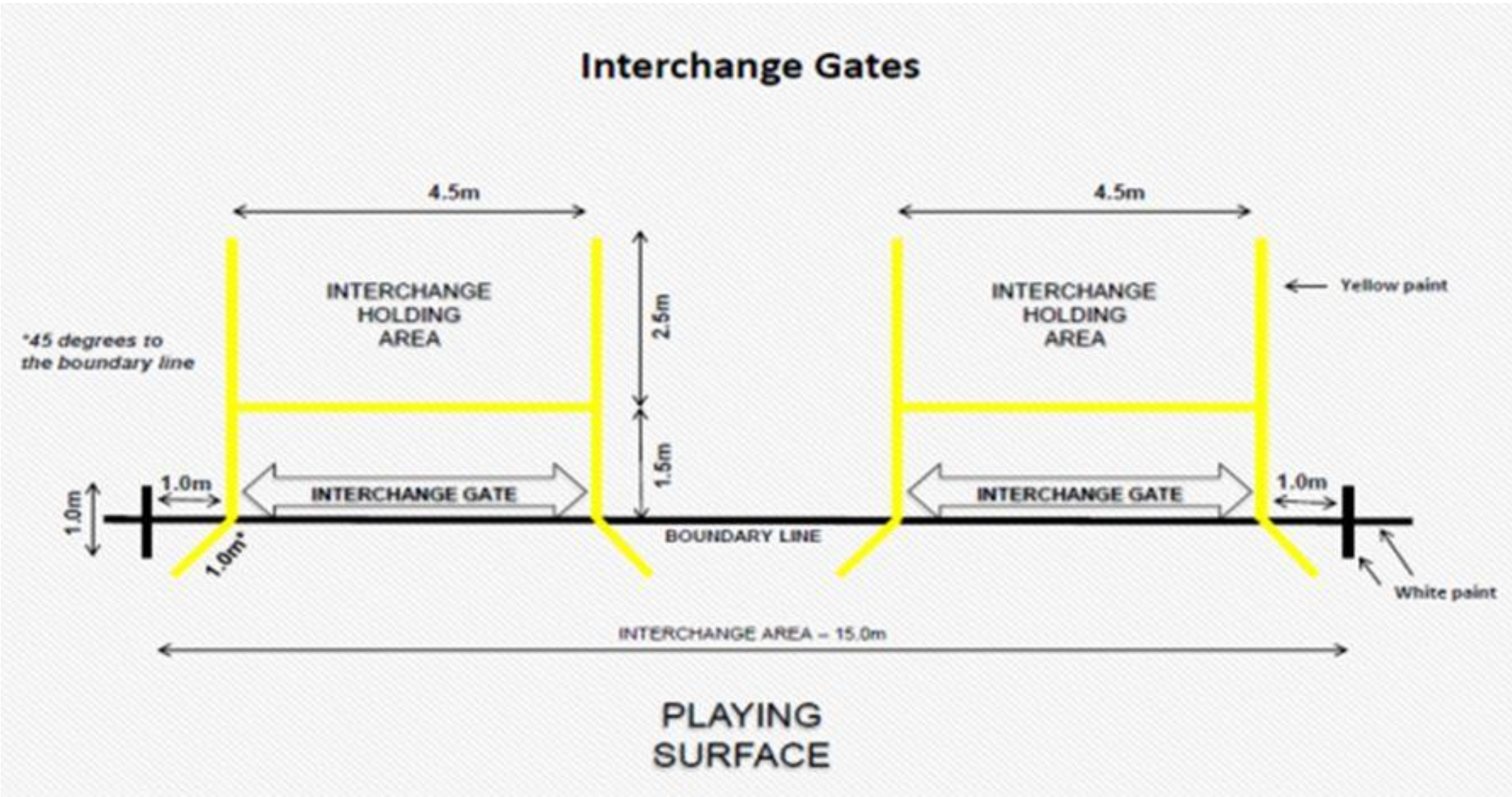Interchange Gates