Raymond JNC Cruz 12/5/2013

ITM 189 – X

Parking Slot Counter and Availability Indicator for Loyola Schools Parking Lots – Technology

**Parking Slot Counter**

The counters simply are LED displays that show the number of slots available in the parking lot. The LED displays are housed in a protective casing. The counters are interfaced with the overall system via underground protected cabling pipes.

**Parking Slot Availability Indicator**

The availability indicators are composed of the LED indicator light, sensor, and protected cabling pipes. The LED indicator lights are mounted on top of a post, and emit a red or green light depending on its respective sensor’s input. The sensors use sonar (ultrasonic pulses), electromagnetic currents, or cameras (optical recognition) to detect if a vehicle is occupying its respective parking slot. Both of these components, along with the parking slot counter, are linked via protected cabling pipes, which are mainly underground. The cables are encased in steel or PVC pipes to provide protection.

**Software**

The system is administered through a management software installed in a terminal that is connected to the system’s infrastructure.