

Cameron,

The following are some answers to the council's questions pertaining to the pedestrian crossing signs and the Starin Road LED conversion.

For the pedestrian crossings, there are four light bars at each location. Per location, there are two for east bound traffic and two for west bound traffic. Per direction of travel, one is installed on the overhead trombone arm next to the existing sign. The other is installed on the vertical pole, next to the existing sign. The light bars are only seen from approaching vehicles, not both directions (bars facing eastbound traffic only seen by eastbound traffic not westbound). For better visibility of the lights on the vertical poles, some trimming of branches or tree removal may be necessary.

The light bars have an indicator light facing the pedestrian so they can tell the lights are activated.

In regards to a passive system, the system can be infrared or sensor. With the infrared system, the signal is activated when the infrared signal is broken. This type of system requires something like two bollards housing the infrared system. If a pedestrian does not cross between the two bollards, the system will not activate. The passive system can also be activated by having one bollard and a sensor pointed at the sidewalk picking up somebody walking through the area. Again, if somebody walks on the wrong side of the bollard, the system will not be activated. If the sensor area is too wide, false activations can occur. In all cases, a push button is also installed. Passive system can be installed at a later date and do require additional costs to install. The current light bars are run off of solar power. If passive activation is installed the solar panel system would need to be upsized.

It should also be noted that the existing lighted signs at both locations either don't work or work intermittently. An upgrade of some nature is needed no matter what.

The lump sum payment of \$19,500 was based on the extra cost associated with the existing lights between Tratt Street and Prairie Street. The extra cost for these light fixtures was \$88.06/month. Over 20 years this amounts to \$21,134.40. The extra pole with two light fixtures is an additional \$38.42/month. Over 20 years this amounts to an additional \$9,220.80 which was not accounted for in the original MOU.