

Client: E470 Authority

Application : AT700 Tolling – Retrofit to Manual Lanes

Background: E470 in Denver, Colorado is 47 miles long and runs from I25 South of Denver to the new international airport and beyond linking to I25 in the North.

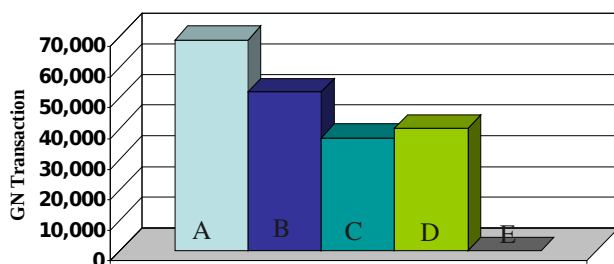


Project Detail: Prior to the introduction of Idris®, E470 were using conventional technology to perform automatic vehicle classification (AVC) in their manual lanes consisting of a treadle, 4 foot light curtain and loop.

There were numerous problems with the system such as :-

- ◆ Gooseneck (5th wheel) Violations
- ◆ System mis-classifications due to vehicle separator
- ◆ Issues with snowploughs
- ◆ Weather related issues due to snow/ice, de-icer and dirt

Actual Gooseneck Misclassifications for 1 Year



Annual Adjustments

Plaza	Goosenecks	Toll Rate	Necessary Adjusted \$
A	69,000	\$ 1.50	\$ 103,500.00
B	52,000	\$ 1.75	\$ 91,000.00
C	37,000	\$ 1.75	\$ 64,750.00
D	40,000	\$ 1.75	\$ 70,000.00
E	-	\$ 1.75	\$ -
Total			\$ 329,250.00





When Plaza E was built, the decision was made to use Idris as the AVC system with the following benefits:-

- ◆ Auditing made easy – fewer exceptions to deal with.
- ◆ Ease of data review – easy to check back to see which was correct, the operator or the system.
- ◆ Elimination of light curtain maintenance costs
- ◆ Elimination of treadle maintenance costs
- ◆ Labour saving on cleaning of light curtain

Outcome: The results from Plaza E were so conclusive that making the case to bring forward the mid-life upgrade for Plazas A-D by approximately two years was straightforward.

Conclusion: The argument for retro-fitting Idris to replace conventional technology can be made purely on financial grounds. Idris is the technology of choice for AVC in ALL types of toll lanes.

The Granary, Aston Sandford, Aylesbury, Bucks, HP17 8JB.

Tel: 01844 291660 Fax: 01296 74755

Email: info@idris-technology.com website: www.idris-technology.com

Diamond Consulting Services Ltd. is registered in England No 2609993.

Reg Office: 1 St James Gate, Newcastle upon Tyne, NE99 1YQ

