

SNUG 2022

- ELV Streetlights – How do you do it?
- ITS Australia Summit – What's not hot in ITS anymore?
- Tradesmanship in Installation – What does bad look like?



ELV Streetlights

- ELV Streetlights – How do you do it?
and
Why does it even matter?



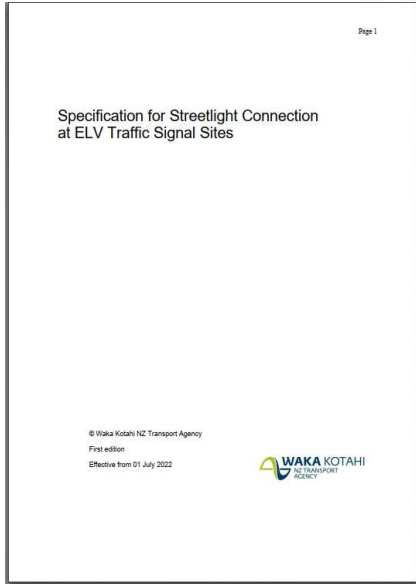
Who here is using ELV traffic signals? Following on from yesterday presentation we now a few of you are.

NZTA asked me to check how this was being done, find the best option, and write a spec on how it should be done in and around Canterbury.

But why does this matter? [discuss about ELV at poles, and why we can't mix 230v with ELV]

ELV Streetlights

No one said it would be interesting



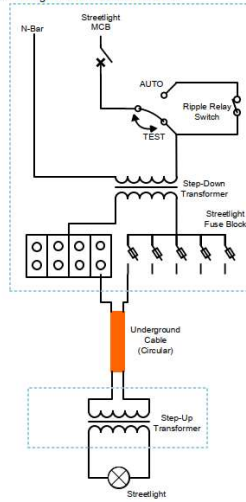
NZTA are happy for me to share the document with anyone who is interested.

ELV Streetlights

A Circuit Diagram

WIRING OVERVIEW

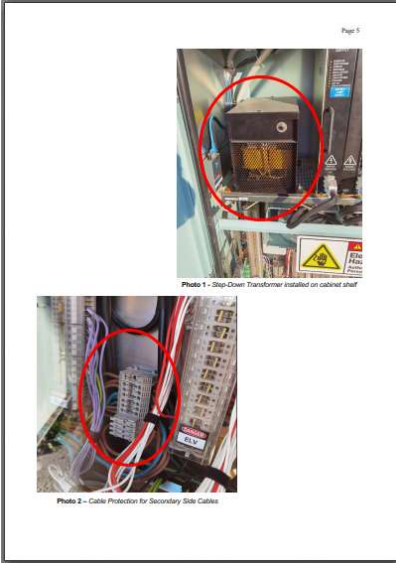
The diagram below shows the streetlight solution wiring overview. This diagram only includes the components relevant to the streetlight connection and control.



The highlights.

ELV Streetlights

And some pictures



The key take-away is that this document now exists, and if you are installing traffic signals in the greater Canterbury area, and there are streetlight JUSPs included, you need to get a copy of this document.

ITS Australia Summit 2022

- ITS Australia Summit – What’s not hot in ITS anymore?

I was asked what I had noticed at the Australian ITS Summit last week. After a pause I explained it was more about what I didn't see.

There was no 'big data'. Apple & Google were nowhere to be seen. Driverless cars were hardly mentioned at all.

Points of discussion –

- Shared mobility,
- Micro-mobility,
- First / last mile mobility,
- Subscription mobility,
- Equitable mobility,
- Public transport improvements for Brisbane,
- Decarbonising transport.



Electric Vehicles, Hydrogen trucks.

Tradesmanship in Installation

Why do we allow corners to be cut in installation work?

And who is responsible to 'police' the quality of a job?

A quote from my first boss during my apprenticeship –

“Why do half a job when it is 80% of the way to a full job?”



He had a few other quotes too, but that was 1990, and they don't translate too well into 2022.

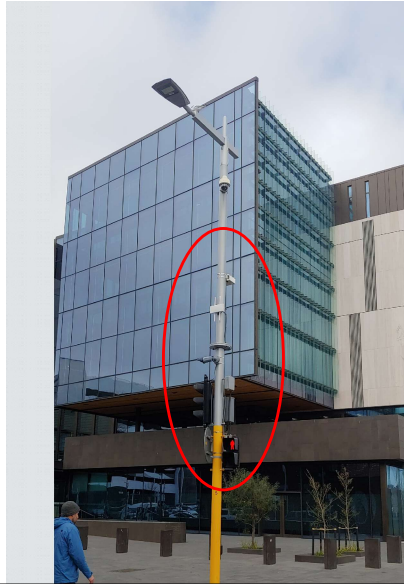
Tradesmanship in Installation

Does this look like half a job?



Would you like to see this on the streetlight pole outside your lounge window every day?

Tradesmanship in Installation



Or this?



This is outside the Justice precinct in Chch. What is criminal is that someone was satisfied with this job in the first place! Cable ties, long exposed cables, multiple cables tied together.

Tradesmanship in Installation



And this takes the cake for me.



This was paid for using my rates! As a rate-payer, I'd want a refund for this workmanship. Look at the load on this pole, 2 large solar panels and a large heavy sign. The solar panels and the sign have huge windage to the Nor-wester. Just as well we have a nice fat aluminium pole to hold them up!

Tradesmanship in Installation

We can't tell you how to do a good job in P43,
you have to want to do a job you are proud of!



But do we need to have a maximum length for cables to be 'outside' of the pole? What do you all think?