

Power & Communication

Electrical Requirements To Charge Your EV

LEE MACFARLANE, EVITP

PROJECT MANAGER

Where do
'THEY' want
you to
Charge?



Home

Single Family
Residential
Townhouse
MURB/Condo

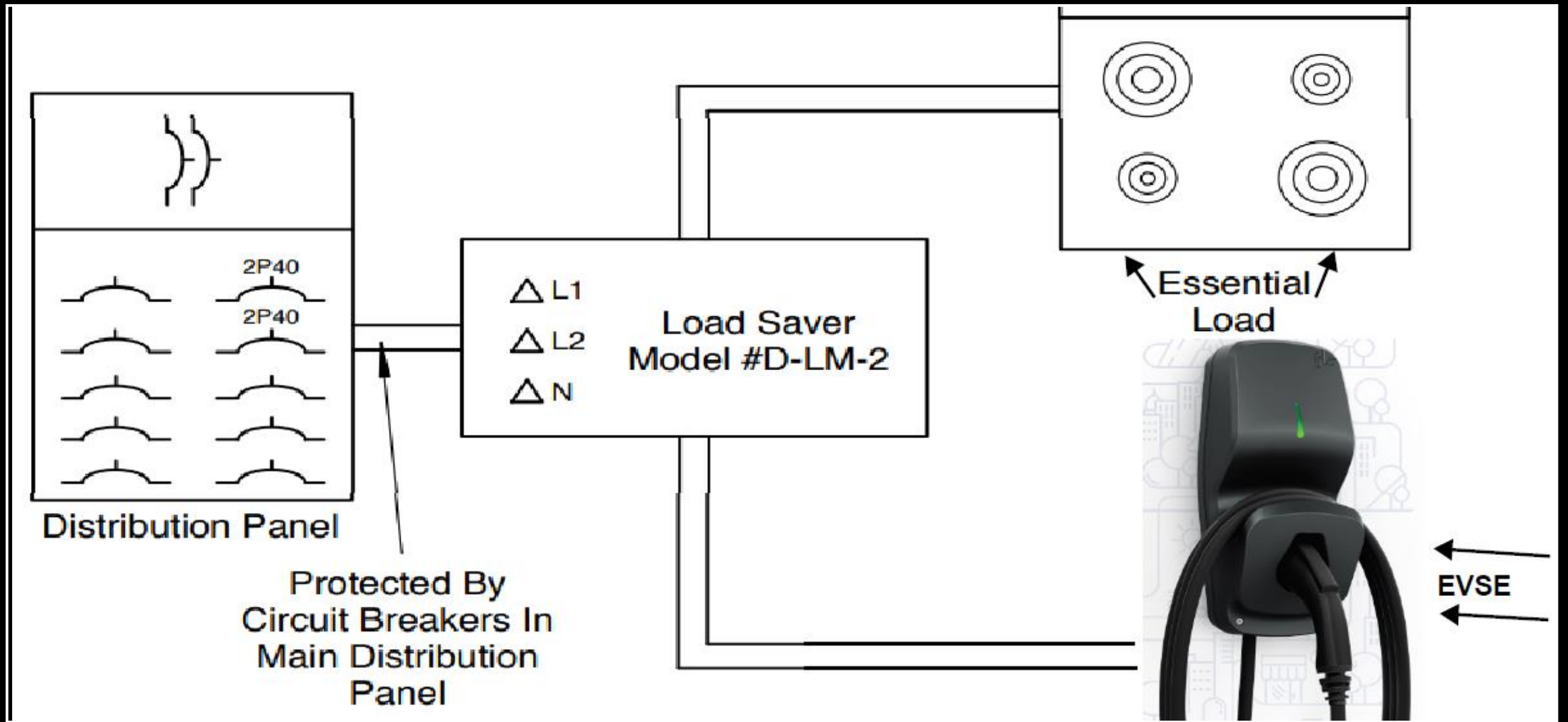


Workplace



Public

Library
Malls
Stations



Load Miser or Other Systems – THEY ARE NOT TO BE USED WITHOUT REFERENCING NEW DEMAND CALCULATION

CURRENT
BC Hydro
Rebates –
Single
Family (&
Townhouses)

A plug-in unit will only grant you up to \$350 rebate

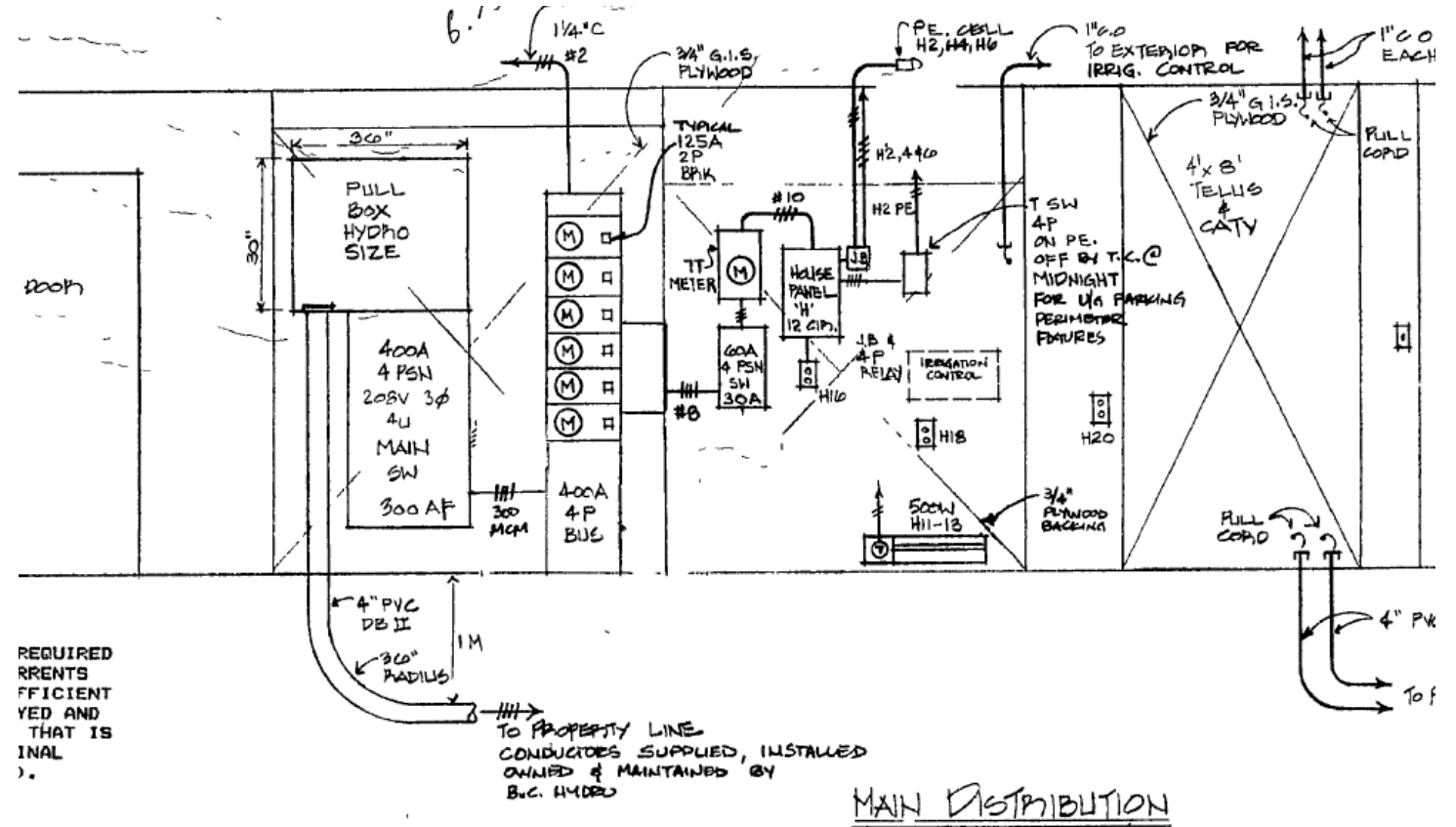
Invoices must have the details of the EVSE separate from the labour, materials, and permit cost.

Must be CSA/UL - on their approved list.

Townhouses are part of this rebate section and not 'MURB'. MAJOR CONSIDERATIONS

Townhouses

- 125Amp Meter, 110Amp Demand, **15amps Left**
- **Not enough for an EVSE**
- Does the main system also have enough to 'grant' your townhome 15 amps?



Planning for your MURB EVSE's

Why....?



Competition / Sales
concerns

New Buildings with
100% EVSE capacity



100% Coverage

Infrastructure wastage
EVSE cost wastage



Installing 1 or 2 chargers now can use up 8
to 10 times your capacity

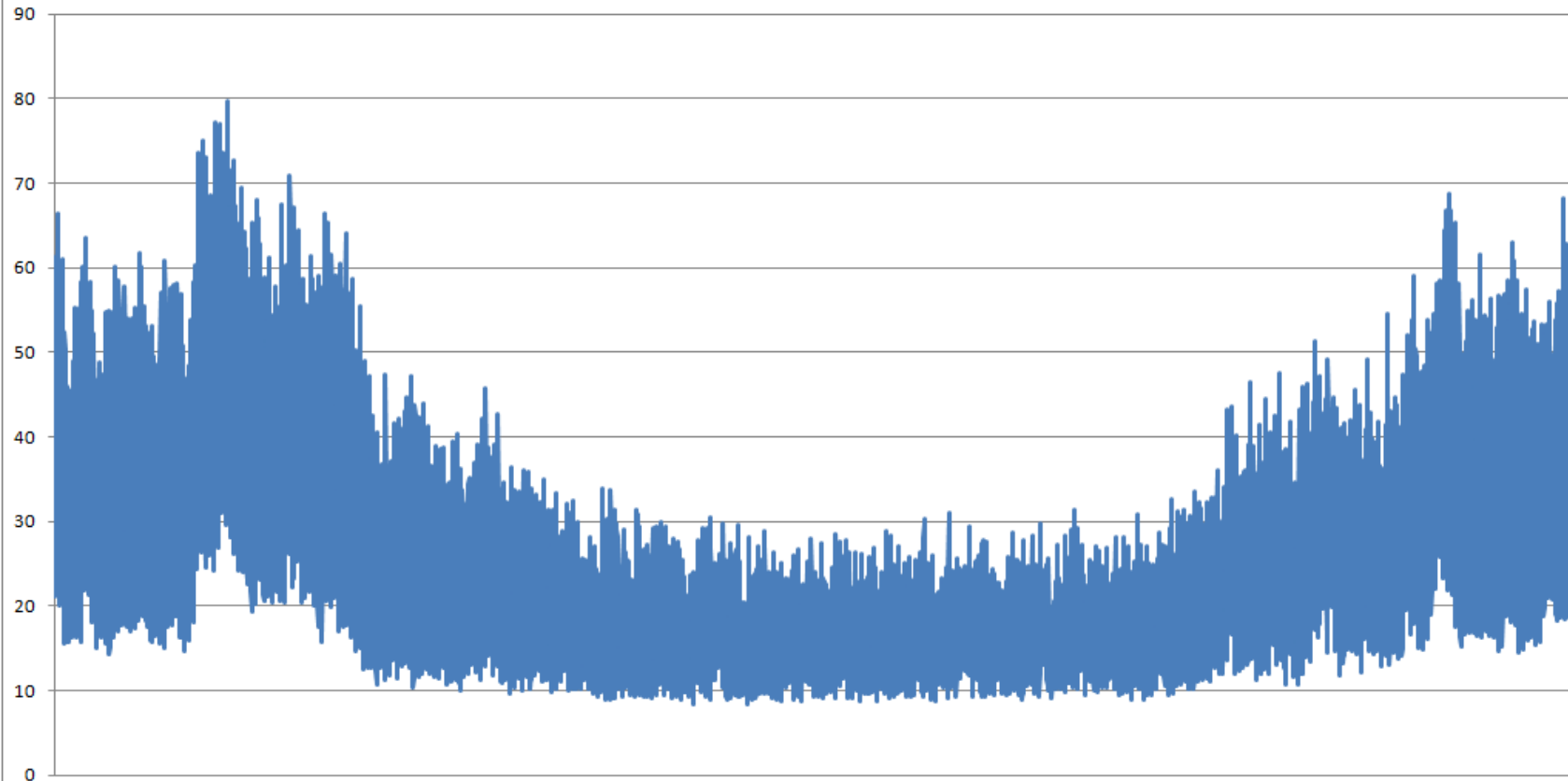


Take your time and make informed
decisions

BC Hydro Information and Rebates

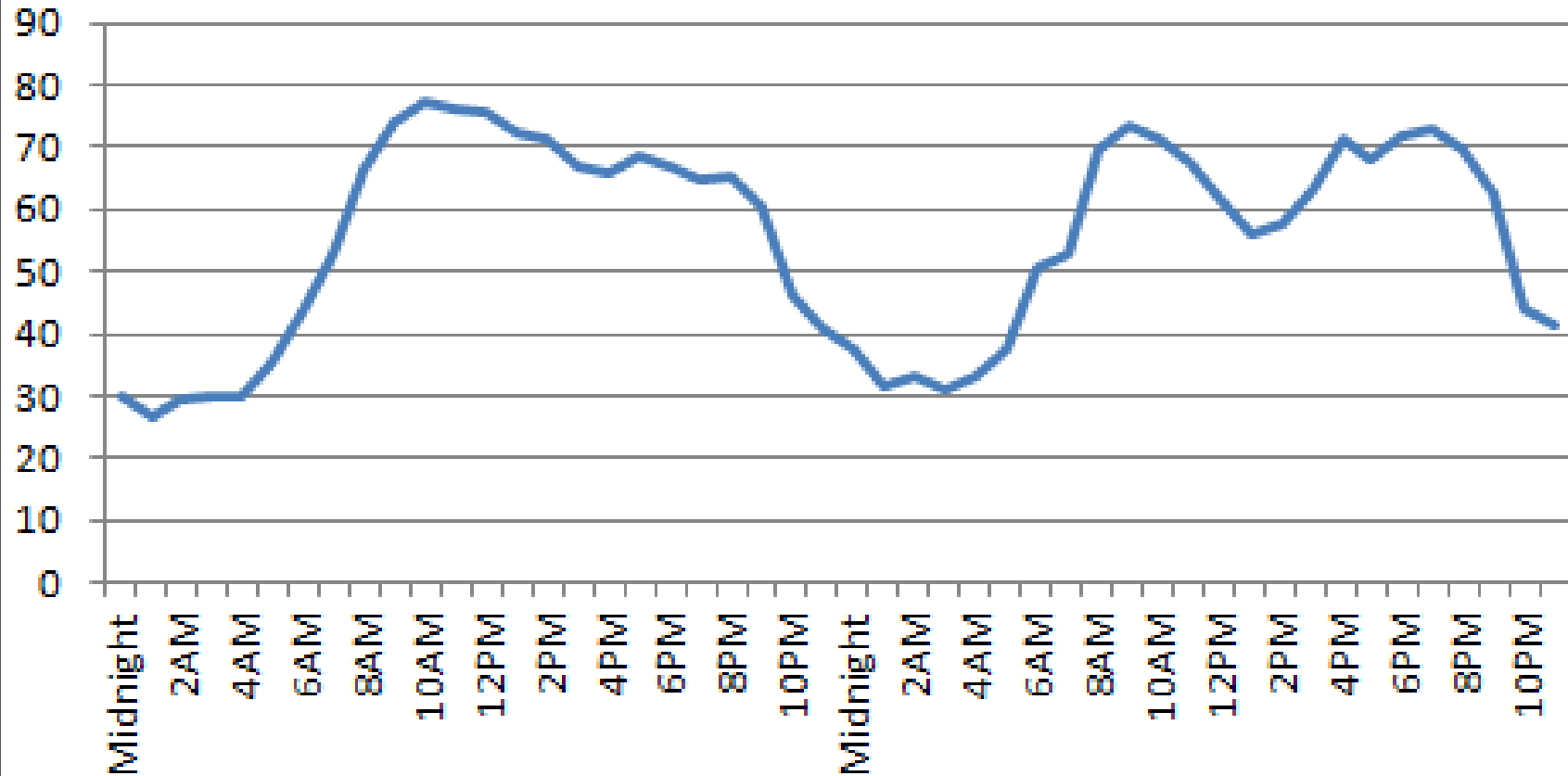
- Plan for 100% EVSE distribution with BC Hydro / Electrician's help
- Annual Hourly Peak Load Report
- Useful / Needed info
- What type of end user product? What features does your strata need?
- Rebates require EV Ready Plan to access Infrastructure and Level 2 networked charger rebates

kWh_Total



BC Hydro
Annual
Hourly Peak
Report

KW 2 Day Report



BC Hydro
Annual
Hourly Peak
Report

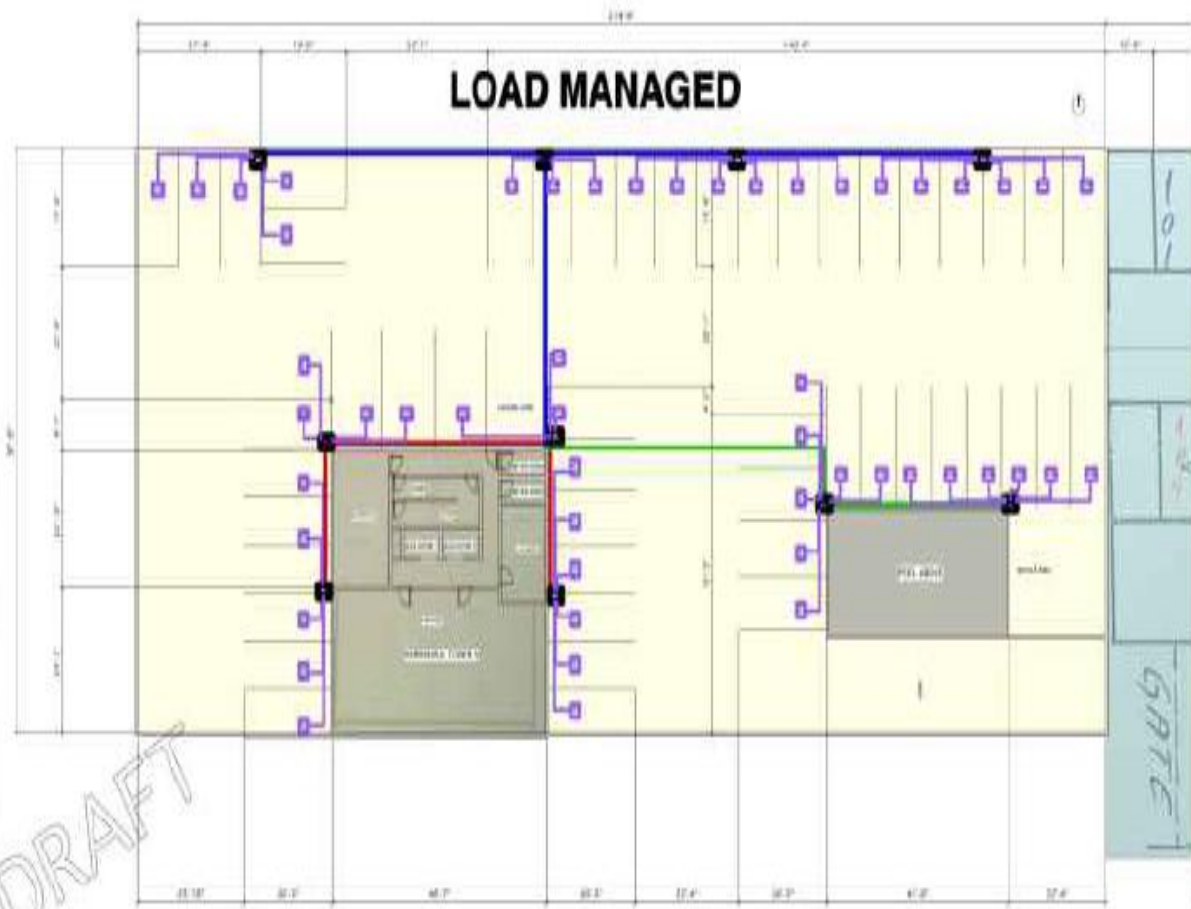
Demand
Charges?

Designing and Planning EVSE Infrastructure

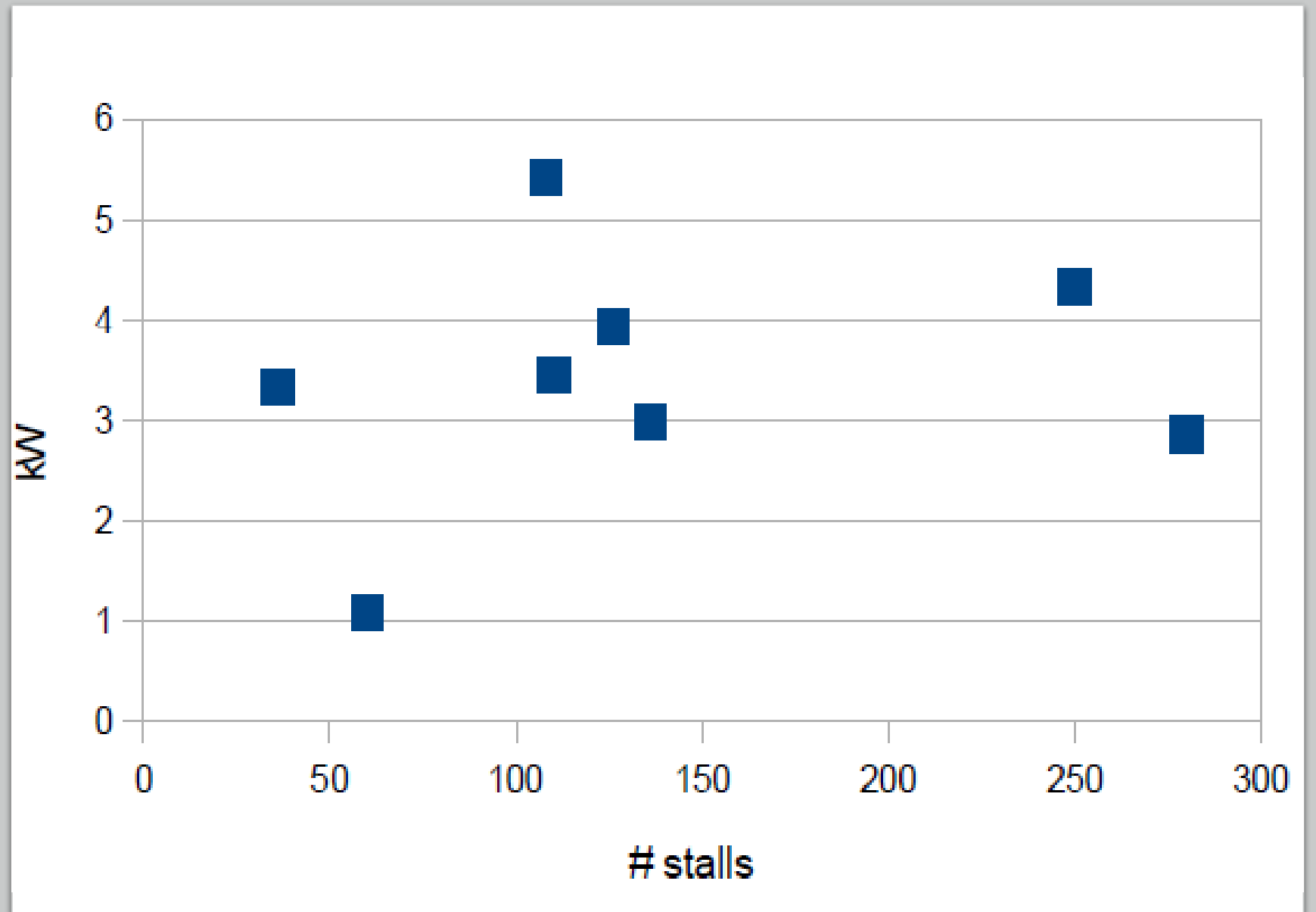
- Size of Electrical Room
- Equipment in Electrical Room
- Current Demand
- Drawings
- Location of EVSE issues – GC needed?

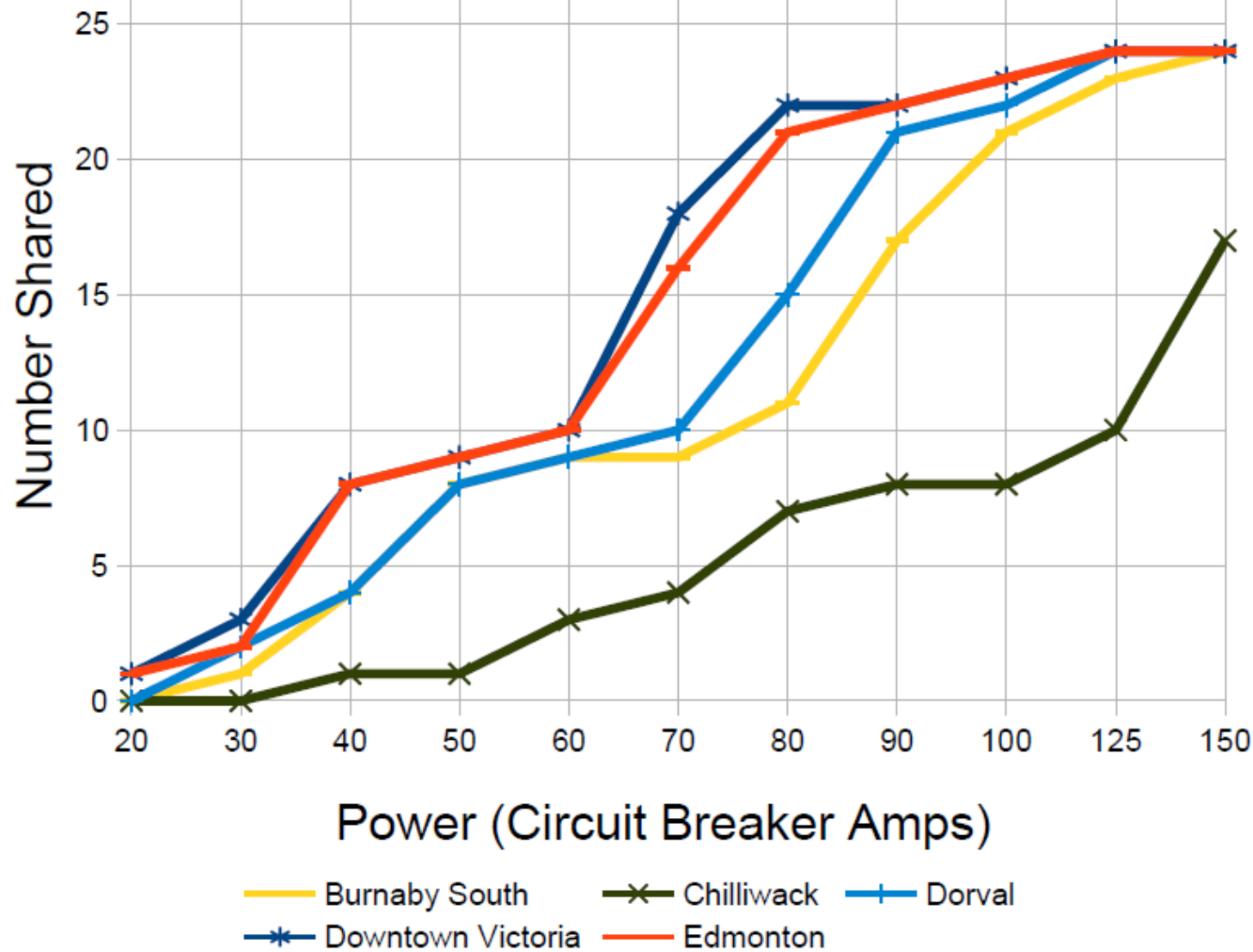


Designing your EVSE System



EVSE Spare Capacity





Depending on where you live – you may require more power

Recap – Infrastructure Work

Have an electrician visit your strata/building

EVEMS to use ALL available power?

Ask what your electrician will be able to do for you – Design? Suggestions? EVSE Supplier? GC work?... Part of the EV Ready Plan

Recap – EVSE Installation



Watch for Annual Costs



Watch for Hourly or Usage Costs



Design Efficiently



Carbon Credits

3 - 6820 Veyaness Road
Saanichton, BC
Canada V8M 2A8

T: 250.652.9166

F: 250.652.9165

E: admin@edwardselectric.net

www.edwardselectric.net

Edwards Electric (2003) Ltd.

How We May Help?

- Finance Infrastructure costs
- Lease EVSE's including service and monitoring