



Feed-In Tariff Scheme
Standard Metering Requirements

CLP POWER HONG KONG LIMITED

Date Revised: April 2018

Feed-in Tariff Scheme Standard Metering Requirements

1. Introduction and general interpretation

- 1.1. This document sets out the requirements for the location, accommodation and operation of FiT Meters and electricity revenue meters for the purposes of the FiT Scheme.
- 1.2. For the purposes of this document, “FiT Meters” refer to those meters that are used for determining the amount of electricity generated by the Renewable Energy (“RE”) Systems and “electricity revenue meters” refer to those meters that are used for determining the amount of electricity consumed from the Network on the Registered Address.
- 1.3. These requirements are additional to those set out in the “[Guide to Supply and Metering Arrangement on Customer’s Internal Distribution System](#)” (“**Supply and Metering Arrangement Guide**”) which is available on CLP website (www.clp.com.hk).
- 1.4. In the event of any inconsistency between these requirements and the requirements set out in the Supply and Metering Arrangement Guide, these requirements shall prevail.

2. Information Submission

- 2.1. You are required to submit to us an electronic-copy of “Single-line electrical diagram” including metering arrangement for our comment prior to the commencement of the RE System installation.
- 2.2. “Single-line electrical diagram” is required to be signed and endorsed by a Registered Electrical Worker with appropriate grade.

3. Installation of Meters

3.1. Location

- 3.1.1. A FiT Meter is required to be installed at a location that is close to the point of connection to the Network and is readily accessible for the purposes of meter reading, operation, testing, maintenance, repair and replacement. Readily accessible means the FiT Meter can be reached safely and without restrictions. Access to the FiT Meter requiring the use of tools (e.g. ladder) or removal of obstacle does not fulfil this requirement.
- 3.1.2. Pre- & post- meter lockable switches (DP / 4P) of appropriate rating is required to be installed for isolating all sources of supply from the Network and RE Systems to FiT Meter. You shall provide, install, maintain and operate these switches at no cost to us. Please refer to Diagram 1 for an illustration of a FiT Meter arrangement including an isolation switch.

3.1.3. For reasons of safety, and reliability and maintenance of the FiT Meter, the FiT Meter must not be installed in or close to any of the following locations where there are potential hazards or the function of the FiT Meter may be affected:

- a) Fire / high temperature environment such as oven, boiler, inside kitchen;
- b) Water / extreme moisture environment such as water tap, sink, inside bathroom or toilet;
- c) Flammable gas / area of readily combustible material is stored;
- d) Strong radio source / shield space where meter communication is interfered / blocked.

3.1.4. The FiT Meter must not be installed in a location where may be hazardous to personnel's safety or health during metering works or reading such as:

- a) Elevated, depressed, confined area without proper falling protection or safe access way or normal air circulation;
- b) Basement where is susceptible to sudden ingress of water;
- c) Over stairway, ramp or steps without proper working platform;
- d) Unhygienic areas where is susceptible to unpleasant odour, presence of germs or bacteria;
- e) Area where personnel may be interfered by animals, insects or plants;
- f) Area where use of tools, gears or personal safety equipment for metering works and readings are restricted.

3.2. Accommodation

3.2.1. A FiT Meter is normally required to be installed inside an existing switch room or meter box. You are required to prevent unauthorised entry to the switch room but maintain safe and unrestricted access for our staff and contractor at all times.

3.2.2. We may allow installation of a FiT Meter outside of the existing switch room or meter box, provided the requirements set out in 3.2.3 to 3.2.5 are satisfied.

3.2.3. If the FiT Meter accommodation is located outdoor, you are required to provide and install at no cost to us a weather-proof meter box to house the FiT Meter. Please refer to Diagrams 2 and 3 for the detailed dimensional requirements for a weather-proof meter box.

3.2.4. If the FiT Meter accommodation is located in an indoor area and is accessible by anyone including unauthorised persons and persons without relevant qualifications, you should have the right of use of that location and are required to provide and install at no cost to us a meter box with a locking device to house the FiT Meter.

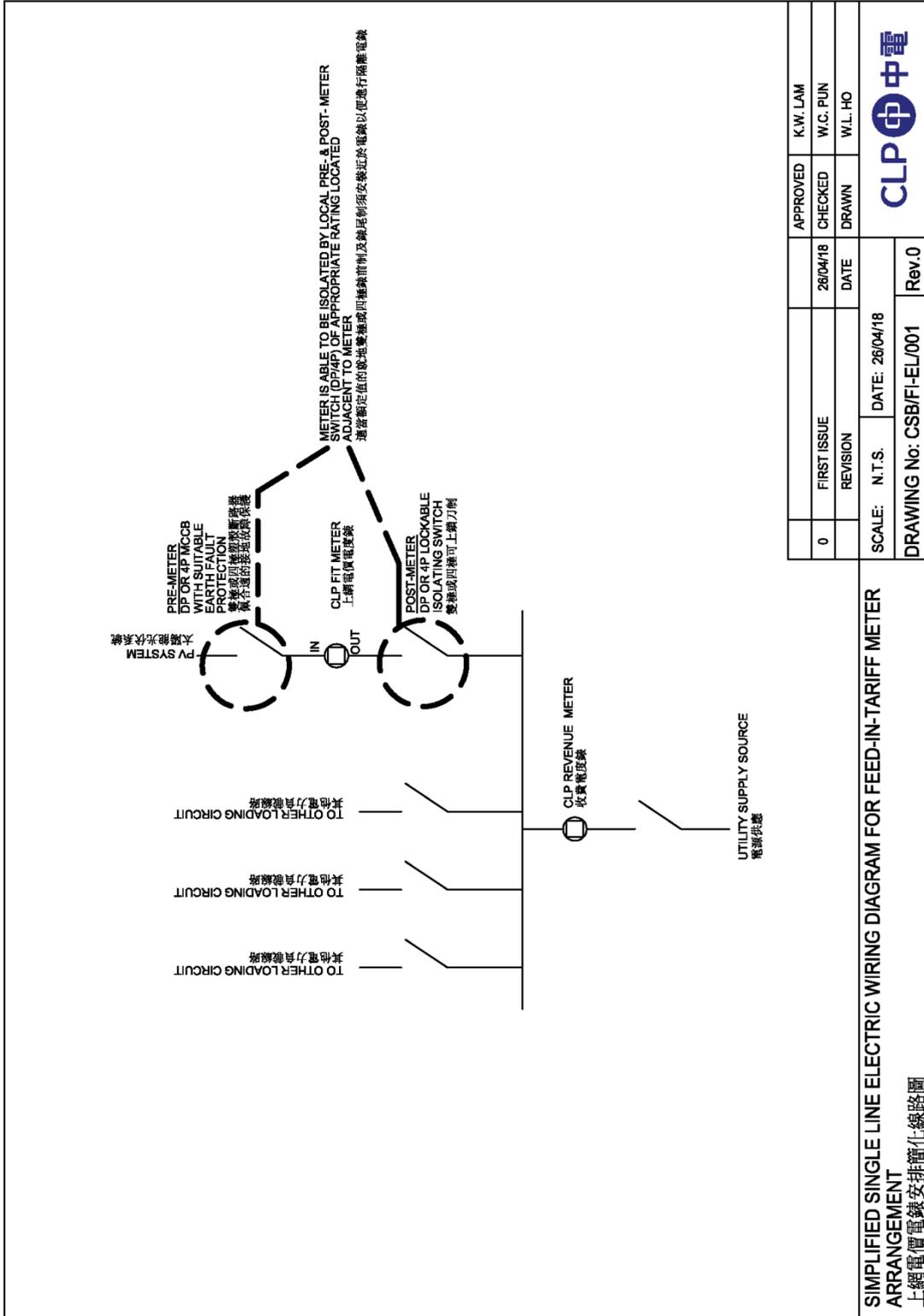
3.2.5. In addition,

- a) the meter box is required to be one that enables the FiT Meter to solidly mount to a permanent structure and not subject to vibration;
- b) for size of outdoor meter box, please refer to diagram 2 & 3. For size of indoor meter box, please refer to diagram 4;
- c) top of the meter board is required to be not higher than 2m from the ground and bottom of the meter box is required to be not lower than 0.8m from the ground;
- d) front clearance of meter box is required to be more than 900mm; and
- e) the location of the meter box is required to be able to receive strong 3G/4G signal.

4. Operation

- 4.1. Operation and inspection on the FiT Meter can only be carried out by our staff or contractor.
- 4.2. The FiT Meter and electricity revenue meter must be equipped with automatic reading function.
- 4.3. If the FiT Meter has a rated current less than or equal to 60 Ampere (Single- Phase Whole Current Meter) or 100 Ampere (Three-Phase Whole Current Meter), it shall be equipped with remote disconnection function.
- 4.4. In general, if the rated current of the RE System is less than or equal to 60 Ampere (Single-Phase) or 100 Ampere (Three-Phase), you are not required to provide communication channel for the remote meter data collection of the FiT Meter. However, if the rated current is greater than 100 Ampere (Three-Phase), a current transformer operated meter will be adopted and you shall provide at no cost to us a dedicated Public Switched Telephone Network (PSTN) line adjacent to the location of the FiT Meter or subscribe 3G/4G network service for remote meter data collection, unless the design of the RE System allows connection of multiple Whole Current Meters.
- 4.5. To determine the amount of the electricity consumed on the Registered Address after participating the FiT Scheme, metering system modification will be carried out by us. If the existing electricity revenue meter is not bi-directional type, we will replace it with a bi-directional one.
- 4.6. In case of the CLP Account is terminated without another party immediately registered as a holder of the CLP electricity supply account of the Registered Address, you are required to switch off the pre-meter switch of the FiT Meter, i.e. the switch between the FiT Meter and the the RE System, to isolate the RE System.

Diagram 1: Simplified Single-Line Electrical Diagram for FiT Meter Arrangement for a RE System



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SIMPLIFIED SINGLE LINE ELECTRIC WIRING DIAGRAM FOR FEED-IN-TARIFF METER ARRANGEMENT
 上網電價電錶安裝簡化線路圖

Diagram 2: Typical Outdoor Meter Box (Feed-In Tariff) (60A Single Phase or 100A Three Phase)

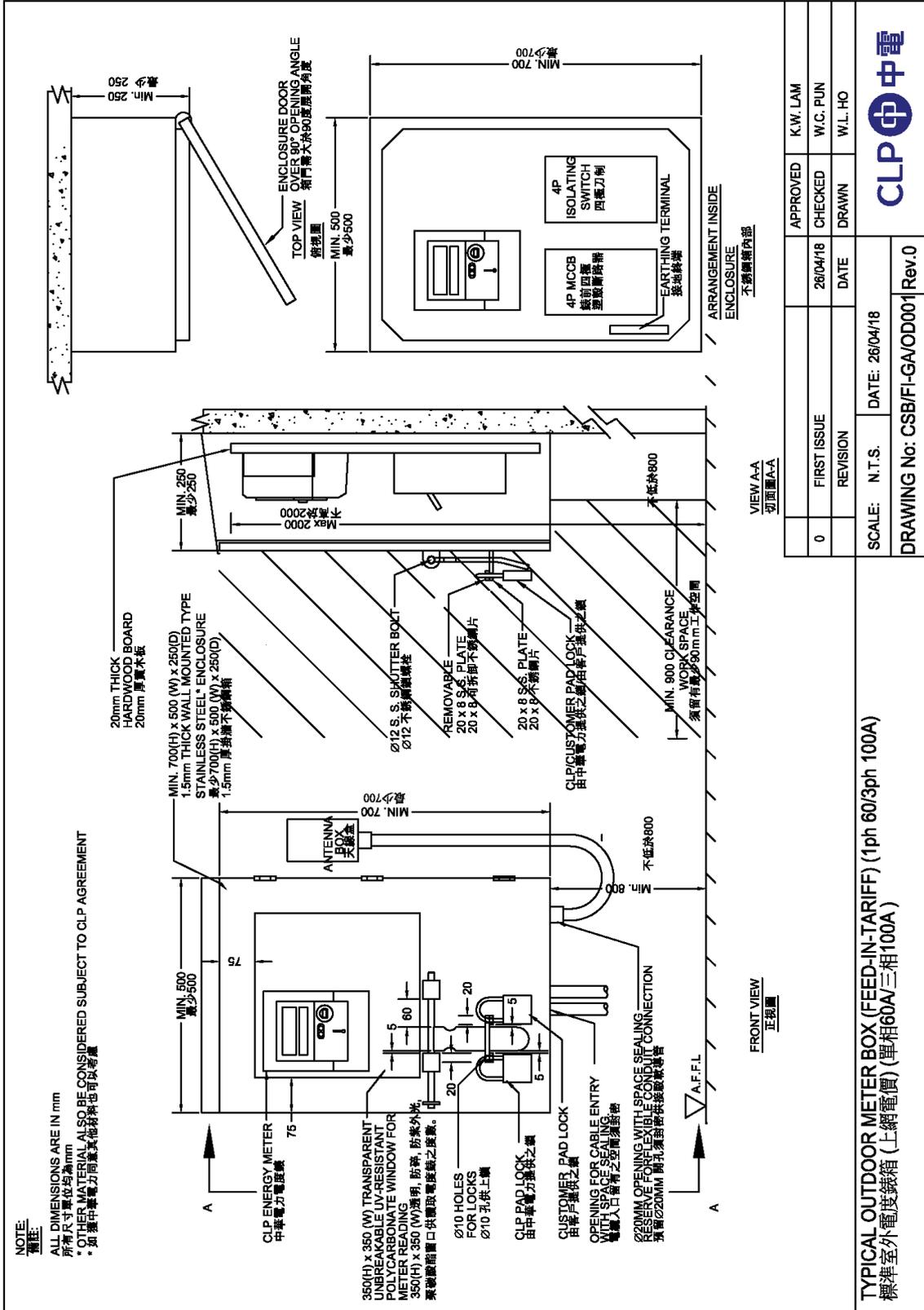


Diagram 3: Typical Concrete Meter Box (Feed-In Tariff) (>100A Three phase)

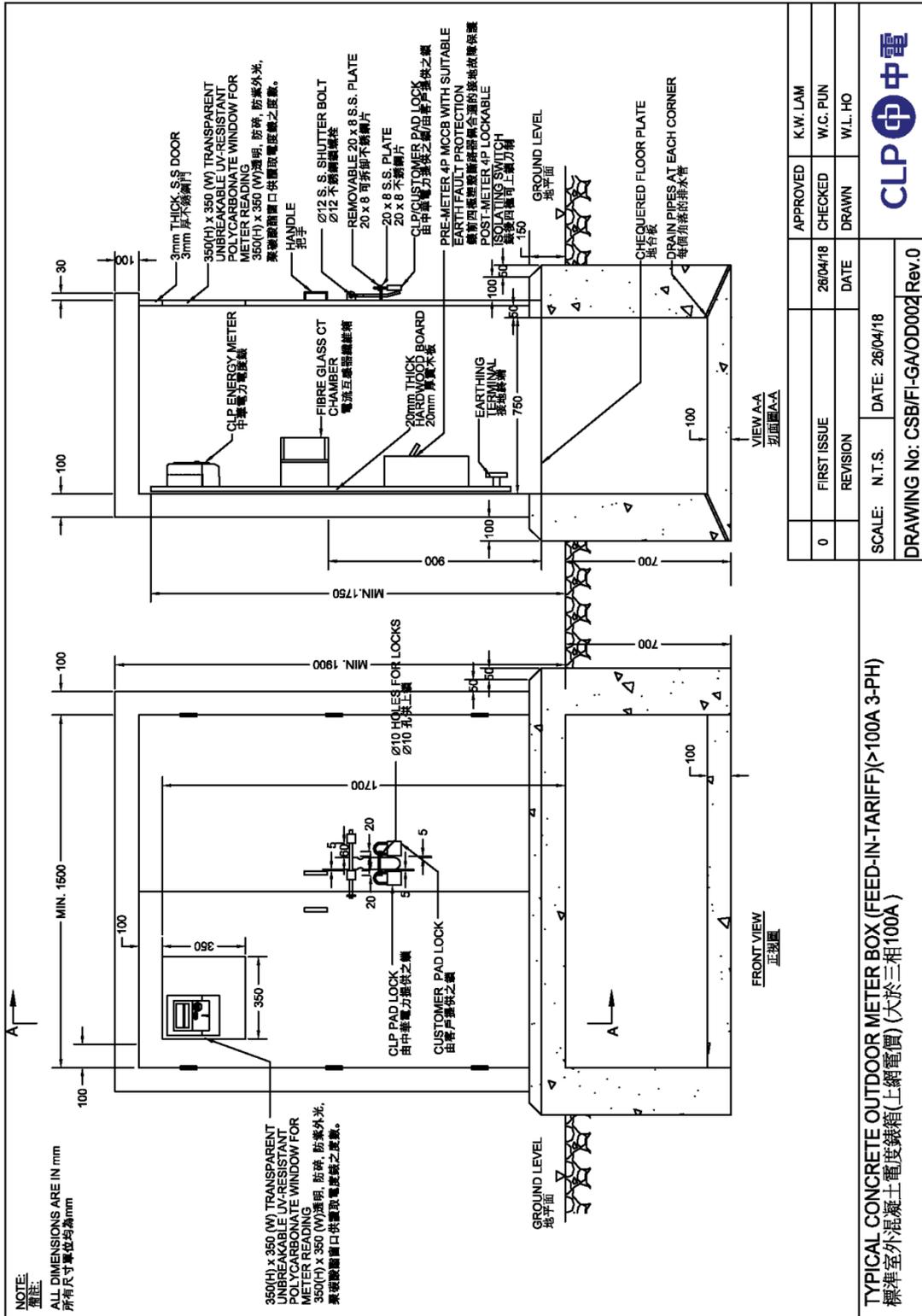
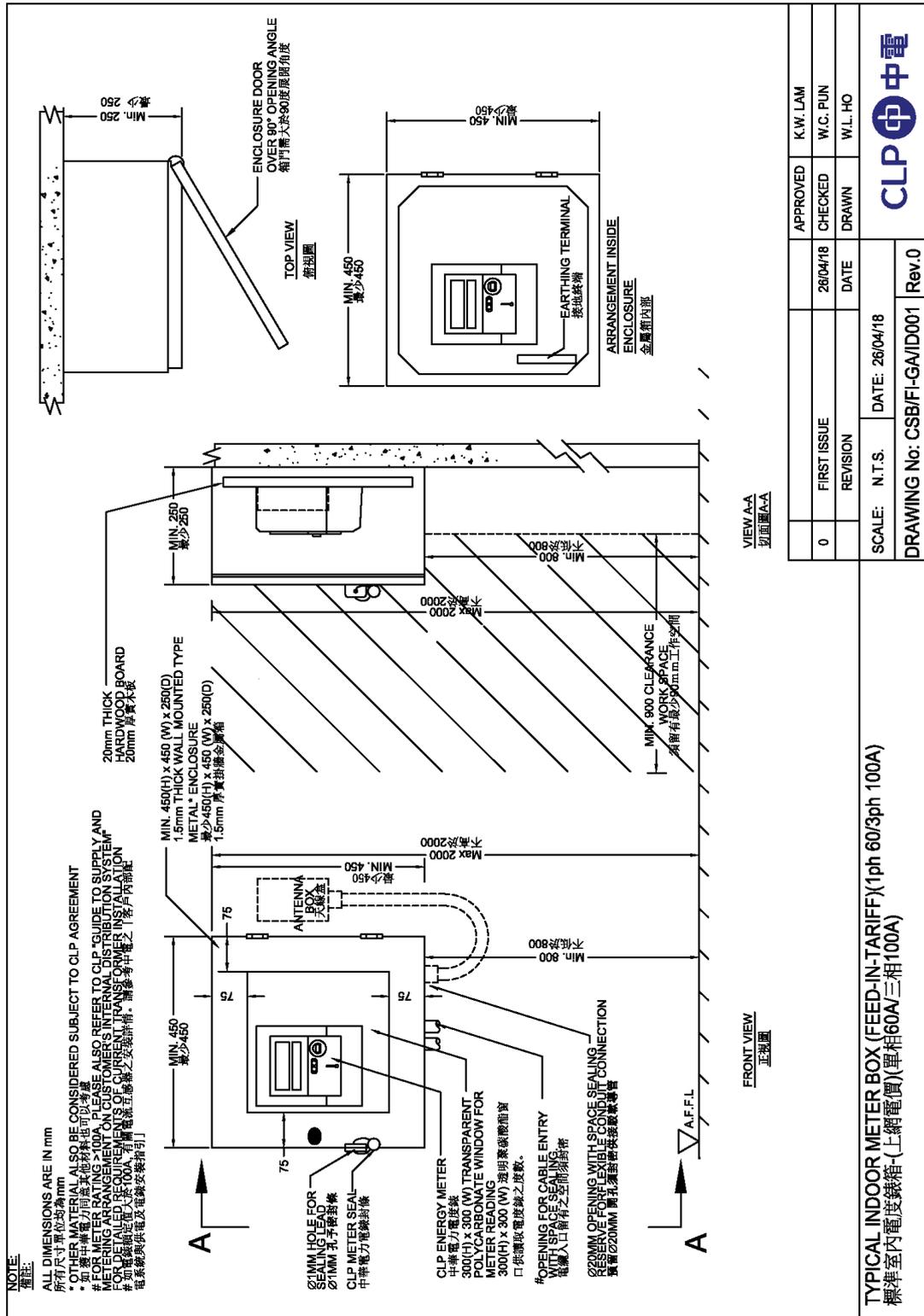


Diagram 4: Typical Indoor Meter Box (Feed-In Tariff) (60A Single Phase or 100A Three Phase)



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TYPICAL INDOOR METER BOX (FEED-IN-TARIFF)(1ph 60/3ph 100A)
 標準室內電度鐵箱(上網電價)(單相60A/三相100A)