

For Your Safety

DISTRIBUTION POLES

Distribution poles' class and height as per Standard Design or Plan

Poles are installed at proper depth of setting as per Standard Design or Plan
OESC 75-104 (Table 104) and MEA I-14 4.11

Pole-hole has diameter between minimum and maximum to allow proper tamping

Pole's backfill material does not contain organic, ice, snow or frozen material, below 6"

Poles installation at ditch or swamp location as per Standard Design or Plan

Concrete pole's reinforcing steel re-bars properly grounded to system ground

Pole's signs, warning signs and markings are as per Standard Design

Poles are not mechanically damaged (bent, cracked)

Pole has minimum separation to other buried services (to permit pole replacement)
CSA 22.3 No. 1 – 5.6.4

Neutral grounded as per Standard Design or Plan

Where every 5th pole is grounded, does grounding match the LDC Grounding Standard. Check only when there is no P.Eng or Limited Licence Holder's sign-off on the page

Are pole ground rod's install distance from pole as per Standard Design or Plan (50cm typical)

OVERHEAD STRUCTURE FRAMING

Attachment points are as per Standard Design or Plan

Minimum clearances between conductors on the same structure are as per Standard Design or Plan
CSA 22.3 No. 1 – Table 20 and 21

Minimum clearances between conductors crossing in-span as per Standard Design or Plan
CSA 22.3 No. 1 – 5.8.1 and Table 13

Overhead Structure Framings have proper obstruction free area (trees)

Minimum basic vertical clearances of wire above ground, rail or navigable waterway as per Standard Design or Plan

CSA 22.3 No. 1 – 5.3.3.2, Table 3 OPSD 217.030

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Minimum clearances of wires to buildings are as per Standard Design
CSA 22.3 No. 1 – 5.7.2, 5.7.3, Table 8 and Table 9

Minimum clearances of wires to swimming pools are as per Standard Design
CSA 22.3 No.1 – 5.7.5 - Table 11

Minimum clearances of wires to propane tanks (>7600L) as per CSA C22.3 No.1-01 or Plan
CSA 22.3 No.1 – 5.7.7

Grounding and bonding of equipment is as per Standard Design

Grounding conductors are mechanically protected where accessible to public

Clearances for transformer installations are as per Standard Design

O/H COMMUNICATIONS FRAMING

Communications minimum clearance to ground as per Standard Design or Plan
OPSD 217.030

Communications min clearance to system neutral at pole as per Standard Design or Plan
CSA 22.3 No. 1 – Table 23

Communications suspension strand is bonded to system neutral at 300m intervals
CSA 22.3 No. 5.1 – 4.2.2(b)

GUYING & ANCHORING

Guy wires are approved (thickness, grade)

Conditions / Angles / Distances for guying are specified

All guy wires are adjusted and tightened with no slack left

Poles installed with offset or rake as per Standard Design or Plan

2 is the minimum quantity of 3-bolt clamps used on installations

Guying attachment point on the pole has a dedicated bolt (not sharing a bolt on the other side of the pole)

Where communication cables are attached, a proper guy insulator is installed
OESC 75-310 (Specifications 25 & 25.1)

Guy guards are installed and in a substantial and conspicuous manner (not green)
CSA 22.3 No. 1 - 4.2.8

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Guy has minimum horizontal separation from fire hydrants
CSA 22.3 No. 1 – 5.6.1

Strut guy is installed where a sidewalk is involved

Grounding wire for electrical system grounds is not in contact with a guy wire

Anchors have proper depth setting

Anchors have proper minimum separation from other buried facilities or anchors

Number of guy wires attached to anchor as per Standard Design or Plan

If guy breaks, Down Guy insulators fall below all power attachments and above 2.5m from ground

If guy breaks, Span Guy insulators fall below all power attachments and above 2.5m from ground

O/H TRANSFORMER

O/H Transformer has proper clearance to lowest primary conductor

O/H Transformer has proper clearance to H.V. cutout

O/H Transformer's tank is grounded to system ground

O/H Transformer is not mechanically damaged

H.V. SOLID SWITCH

H.V. Solid Switch's attachment has proper clearance to lowest primary O/H conductor

H.V. Solid Switch's attachment has proper clearance to system neutral

H.V. Solid Switch is properly grounded to system ground

All concentric neutral wires are bonded to system neutral

H.V. Solid Switch has proper class surge arrester

Primary cables (terminations) do not block H.V. Solid Switch operation

Primary cables do not cause mechanical stress to H.V. Solid Switch

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H.V. Solid Switch is not mechanically damaged

H.V. CUTOUT

H.V. Cutout's attachment has proper clearance to lowest primary O/H conductor

H.V. Cutout's attachment has proper clearance to system neutral

All concentric neutral wires are bonded to system neutral

Primary cables (terminations) do not block H.V. Cutout operation

Primary cables do not cause mechanical stress to H.V. Cutout

H.V. Cutout is not mechanically damaged

H.V. IN-LINE SWITCH

H.V. In-Line Switch has minimum phase-to-phase clearance
CSA 22.3 No. 1 – Table 20

GANG OPERATED SWITCH

Gang operated switch's minimum pole is class 'H' or class '2' (for concrete and wood)

Gang operated switch's main body, pipes and handle are grounded to system ground

Gang operated switch's operating handle is secured with a padlock

Gang operated switch's operating handle does not obstruct pedestrian traffic

Gang operated switch is not mechanically damaged

POWER CABLES ON RISER POLE

Power Cables are installed with cable guards for mechanical protection

Power Cables guards are extended to level 1m above communication cables and public access (2.5m)
CSA 22.3 No. 1 – 4.2.4.2

Power Cables guards protect cable at least 0.3 m below the surface of the earth
CSA 22.3 No. 1 – 4.2.4.2

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Metal Power Cables guards in contact with the supply cables shall be grounded.
CSA 22.3 No. 1 – 9.1.13

Power Cables are installed on pole's side not facing street traffic

Pole setting (anchoring) not disturbed during excavation for power cables

Power Cables and cable guards are not mechanically damaged

O/H SECONDARY SERVICE

O/H Secondary service has vertical clearances above ground as per Standard Design or Plan
OPSD 217.030

O/H Secondary service's stand pipe is firmly secured

O/H Secondary service cables are not mechanically damaged

O/H Secondary service cables have minimum clearance in span to communication cables
OESC 75-702

O/H Secondary service span of neutral supported cables is not longer than 38m
CSA 22.3 No. 1 – 8.12.2.1 and OESC 75-602 (1)