PADMOUNT EQUIPMENT LOCATIONS & CLEARANCES

Where TCEMC installs padmount equipment on customer's premises, the customer shall furnish a satisfactory right-of-way for such purposes, and shall provide adequate space for the installation.

Padmount equipment shall conform to the following:

- A. Padmount transformers/equipment shall not be located directly in front of doors or stairways, beneath windows which can be opened or building overhangs, or where they will obstruct the vision of vehicular traffic. No pipes or conduits are permitted under the pad except those required for transformer connections. The front (doors) of padmount equipment shall open away from any structure. See Figures 1 7.
- B. Padmount transformers/equipment shall be located at least the minimum distance away from buildings or other structures to ensure adequate space for operating, proper ventilation, to minimize vibration hums, and to meet fire safety requirements.

Feature	Clearance Distance
Noncombustible walls, (doesn't burn) provided the side of the equipment facing the wall does not have doors. A <u>clear level 10 ft area</u> must he provided in front of equipment doors to allow personnel access for the operation and maintenance of the equipment.	3 ft
Combustible walls (including stucco*), main doors, windows, air intakes/exhaust vents, stairs and fire escapes.	10 ft
Gas service meter relief vents, meters or cooling towers, etc.	3 ft
Fire sprinkler values. standpipes and fire hydrants.	6 ft
The waters edge of a swimming pool or any body of water.	15 ft
Facilities used to dispense hazardous liquids or gases (service station gas pumps or propane bulk dispensing.	20 ft
Facilities used to store hazardous liquids or gases (service station fuel storage tank filler openings or emergency generator fueling points.	10 ft

- Stucco on wood framing is combustible: Stucco on metal framing is non-combustible.
- (1). Clearances between padmount equipment and structures must be measured from the closest metal portion of the equipment closest to the structure (including overhangs).
- (2). Consult local building and fire codes for more detailed customer information.
- C. A clear vehicle passageway of 12 feet minimum shall be available at all times, <u>immediately</u> <u>adjacent (within 8') to one side of the equipment</u> to provide an accessible roadway for equipment maintenance. This passageway shall be designed to meet (20-ton) construction.
- D. Transformer and equipment structures will normally be installed only in non-traffic areas. Transformer and equipment protection is required when TCEMC equipment is exposed to traffic. This protection may be in the form of barriers, barricades (See Sheet 4) or curb. A curb must have a minimum height of 6" and be at least 6" thick and its front face located 54" minimum from the equipment foundation (pad).



PADMOUNT EQUIPMENT LOCATIONS & CLEARANCES

DATE: 2-15-11

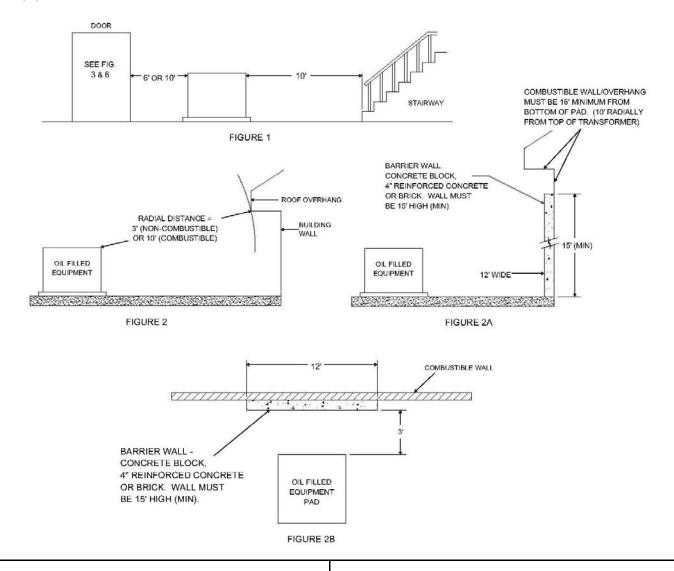
SCALE: NONE SHEET 1 OF 4

Working space and fire safety requirements:

Figures 1 thru 6, show detailed clearances to buildings required for fire safety. Fire safety clearances can be reduced by constructing a suitable <u>masonry</u> fire barrier wall 3' from the back or side of the equipment to the side of the combustible wall (see figures below). Barriers must be at least 12' wide and 15' tall. If there is a combustible overhang on the building, that overhang must be 16' or greater from the bottom of the transformer (10' radial clearance from a 6' high transformer).

All TCEMC equipment will be installed in accessible areas only and have unobstructed vertical access for the installation and removal of the equipment. It will be the builder's responsibility to check that all applicable NEC, municipality and insurance regulations are met.

Pad mounted equipment locations and clearances are minimum requirements only and are intended as a design guide. They do not necessarily represent the final design criteria for any particular project. TCEMC reserves the right to accept, reject or to approve all applications of this particular standard before construction. Please consult the designer/planner for your particular project to ensure the design is acceptable. Only TCEMC approved final drawings will be used for construction/ inspection purposes of TCEMC facilities. Adequate storm water drainage and runoff protection must also be provided to prevent flooding of the TCEMC electrical equipment.





PADMOUNT EQUIPMENT LOCATIONS & CLEARANCES

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SHEET 2 OF 4

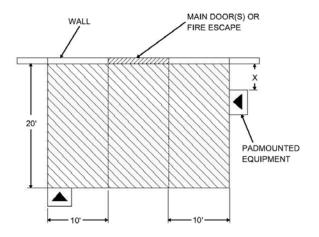


FIGURE 3 DOOR OR FIRE ESCAPE

PADMOUNTED OIL-FILLED EQUIPMENT SHALL NOT BE LOCATED WITHIN A ZONE EXTENDING 20 FT. OUTWARD OR 10 FT. TO EITHER SIDE OF A MAIN BUILDING DOOR OR FIRE ESCAPE.

NOTE: "MAIN DOOR(S)" - THOSE WHICH ARE THE NORMAL MEANS OF PEDESTRIAN ACCESS TO AND FROM THE BUILDING.

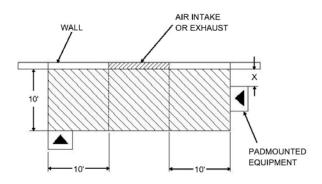


FIGURE 4
AIR INTAKE OR EXHAUST LOCATED LESS
THAN 20' ABOVE THE EQUIPMENT

PADMOUNTED OIL-FILLED EQUIPMENT SHALL NOT BE LOCATED WITHIN A ZONE EXTENDING 10 FT. OUTWARD OR 10 FT. TO EITHER SIDE OF AN AIR INTAKE OR EXHAUST WHICH IS LOCATED LESS THAN 20 FT. ABOVE THE TOP OF THE EQUIPMENT.

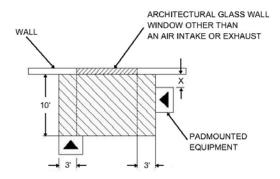


FIGURE 5
WINDOW OR OPENING (OTHER THAN AIR
INTAKE OR EXHAUST) LOCATED LESS
THAN 20' ABOVE THE EUIPMENT

PADMOUNTED OIL-FILLED EQUIPMENT SHALL NOT BE LOCATED WITHIN A ZONE EXTENDING 10 FT. OUTWARD OR 3 FT. TO EITHER SIDE OF A BUILDING WINDOW OR OPENING (OTHER THAN AN AIR INTAKE) WHICH IS LOCATED LESS THAN 20 FT. ABOVE THE TOP OF THE EQUIPMENT.

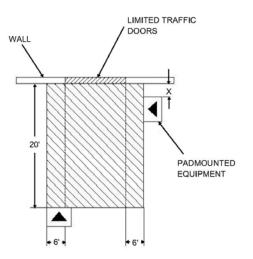


FIGURE 6 LIMITED PEDESTRIAN TRAFFIC DOORS OR GARAGE DOORS

PADMOUNTED OIL-FILLED EQUIPMENT SHALL NOT BE LOCATED WITHIN THE ZONES SHOWN ABOVE.

NOTE: X = MAX. PRACTICAL WITH MINIMUM BASIC CLEARANCES.



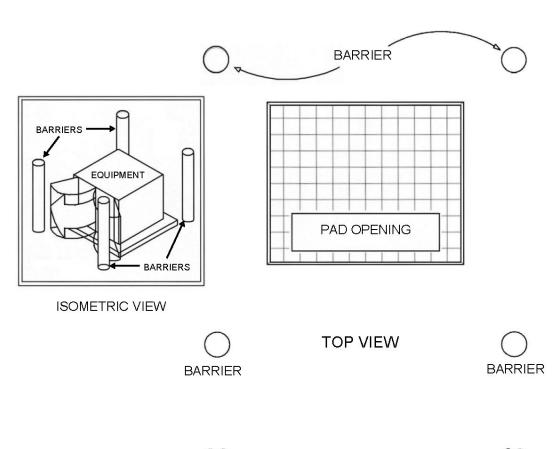
PADMOUNT EQUIPMENT LOCATIONS & CLEARANCES

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SCALE: NONE

SHEET 3 OF 4

PADMOUNT EQUIPMENT **FOUNDATION BARRIER DETAIL**



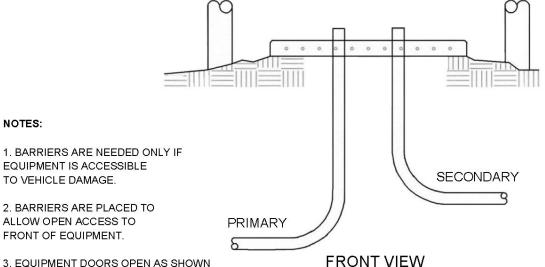


FIGURE 7



NOTES:

ABOVE.

EQUIPMENT IS ACCESSIBLE

ALLOW OPEN ACCESS TO

FRONT OF EQUIPMENT.

TO VEHICLE DAMAGE.

PADMOUNT EQUIPMENT **LOCATIONS & CLEARANCES**

DATE: 2-15-11 SCALE: NONE

SHEET 4 OF 4