

MINIMUM COVER REQUIREMENTS

Conduits shall be installed to meet the minimum depth requirements of the following table. The depth is measured from the top of the conduit to the final grade of the surface.

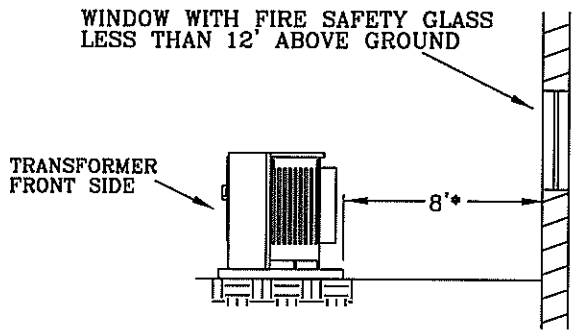
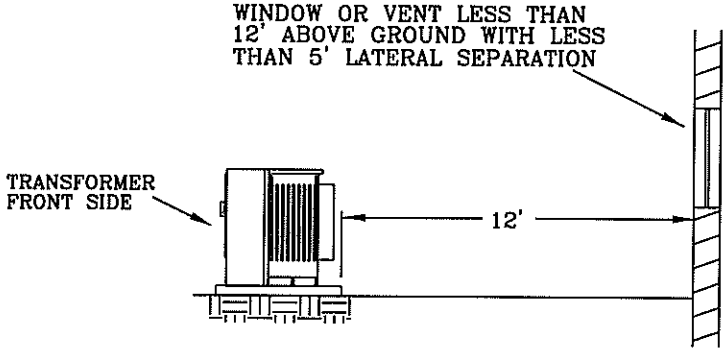
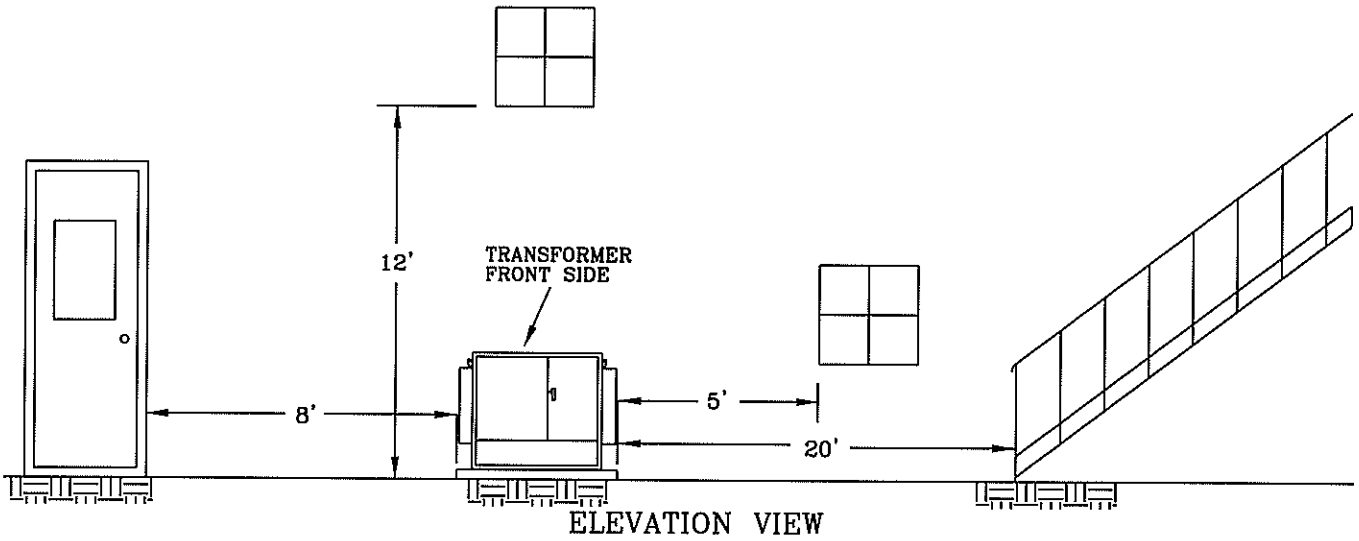
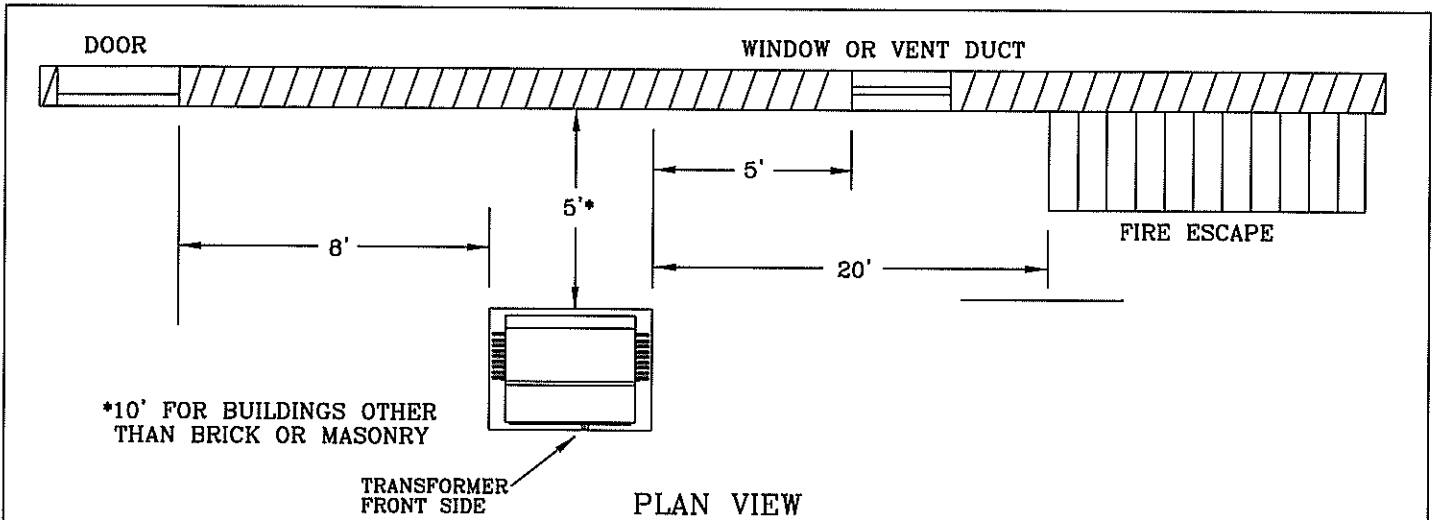
| Circuit Voltage | Depth |
|--------------------|-------|
| 0 to 600 Volts | 24" |
| 601 volts to 40 KV | 36" |

Exceptions:

1. If it is impractical to install at the above prescribed depths, the depth may be reduced 6" for each 2" of concrete cap placed in trench over the conduit installation. The depth will not be reduced more than 12".
2. When crossing under railroad tracks, the depth of the conduit will be 50" under the top of rails.
3. Due to design considerations or required separation from other utilities, the installed depth may be required to be deeper than noted in the above table or drawing.

SEPARATION FROM OTHER UTILITIES

1. Communication conduit systems shall be separated from the electrical conduit system by:
 - a) 12 inches of well-tamped earth
 - b) 3 inches of concrete
 - c) 4 inches of masonry
 - d) Exception: Lesser separations may used where the parties concur
2. Electrical conduit systems installed parallel to water, sewer or gas lines shall have a minimum horizontal separation of 12 inches.
3. Vertical crossing clearance from other utilities shall be 12 inches.
 - a) Exception: When it is not possible to achieve 12 inches of separation, the conduit system shall have suitable support on each side to prevent the direct transfer of loads onto the other utility.



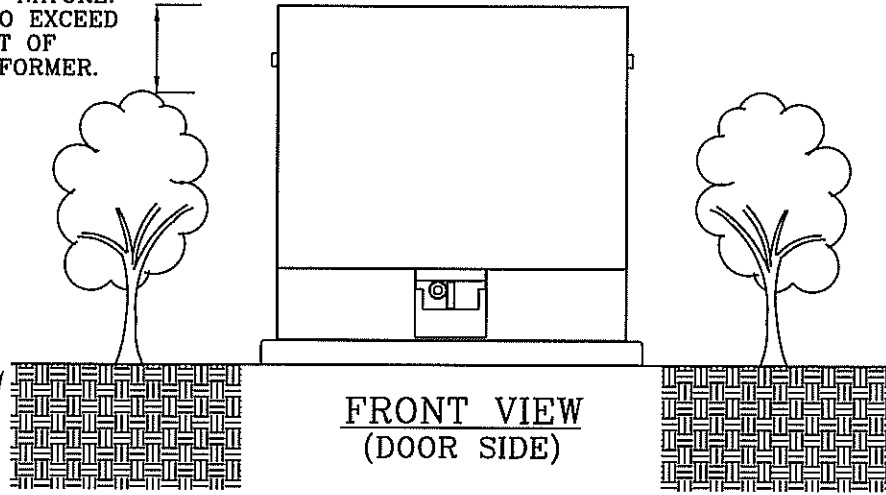
END VIEW

*10' FOR BUILDINGS OTHER THAN BRICK OR MASONRY

- NOTES:**
1. ALL DIMENSIONS ARE MINIMUM.
 2. MAINTAIN A MINIMUM OF 10' CLEARANCE IN FRONT OF TRANSFORMER FOR ACCESS. ADEQUATE SPACE REQUIRED FOR TRUCKS AND LIFTING EQUIPMENT.
 3. APPLIES TO BRICK OR MASONRY BUILDINGS ONLY, EXCEPT WHERE NOTED.
 4. DRAINAGE FLOW AROUND TRANSFORMER SHOULD BE AWAY FROM BUILDING.
 5. NO COOLING TOWERS, GAS METERS, ETC., WITHIN 5' OF PAD.
 6. NO PIPES OR CONDUITS UNDER PAD EXCEPT THOSE REQUIRED FOR TRANSFORMER CONNECTIONS. EXCEPTIONS ALLOWED IF APPROVED BY TNP.
 7. NO PART OF BUILDING MAY EXTEND OVER TRANSFORMER.

FRONT VIEW

PLANTS TO BE DWARF NATURE. NOT TO EXCEED HEIGHT OF TRANSFORMER.



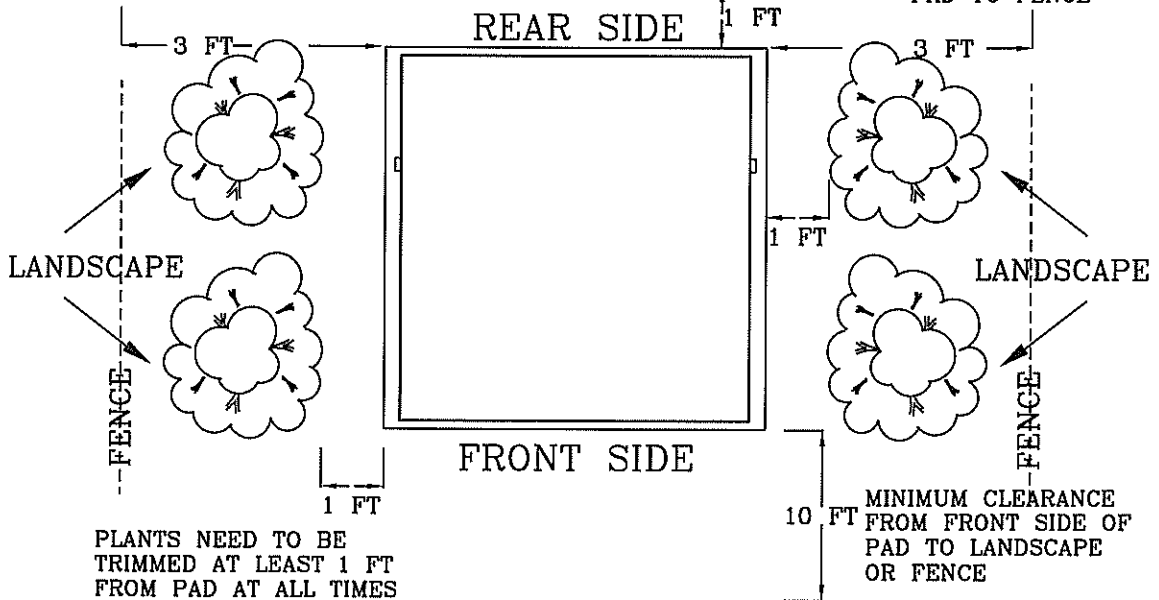
FRONT VIEW (DOOR SIDE)

FINAL GRADE TO REMAIN UNCHANGED AROUND TRANSFORMER

LANDSCAPE OR FENCE

MINIMUM CLEARANCES FROM REAR SIDE AND SIDES OF PAD TO FENCES

MINIMUM CLEARANCE FROM SIDE OF PAD TO FENCE



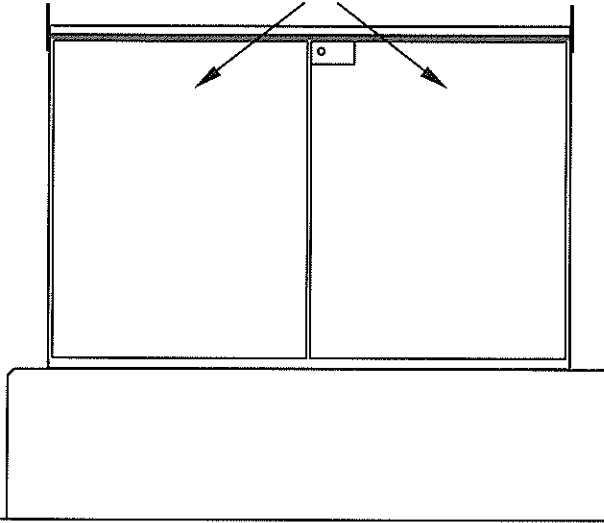
PLANTS NEED TO BE TRIMMED AT LEAST 1 FT FROM PAD AT ALL TIMES

TOP VIEW

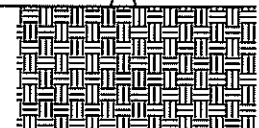
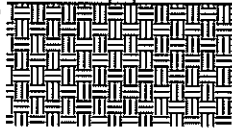
FRONT AND REAR VIEW

DOORS

PLANTS TO BE DWARF NATURE. NOT TO EXCEED HEIGHT OF CABINET.



FRONT AND REAR VIEW
(DOOR SIDES)



FINAL GRADE TO REMAIN UNCHANGED AROUND SWITCH CABINET

FENCE

MINIMUM CLEARANCE FROM EITHER OF SIDES OF PAD TO LANDSCAPE OR FENCE

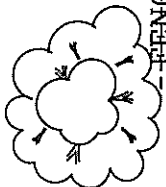
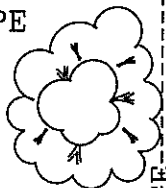
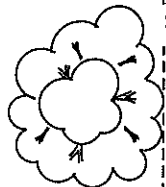
10 FT

MINIMUM CLEARANCE FROM REAR SIDE OF PAD TO LANDSCAPE OR FENCE

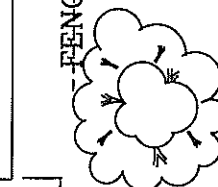
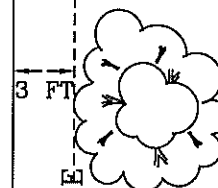
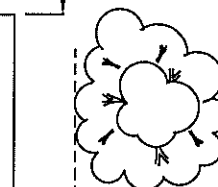
REAR SIDE

3 FT

LANDSCAPE



FENCE



FENCE

FRONT SIDE

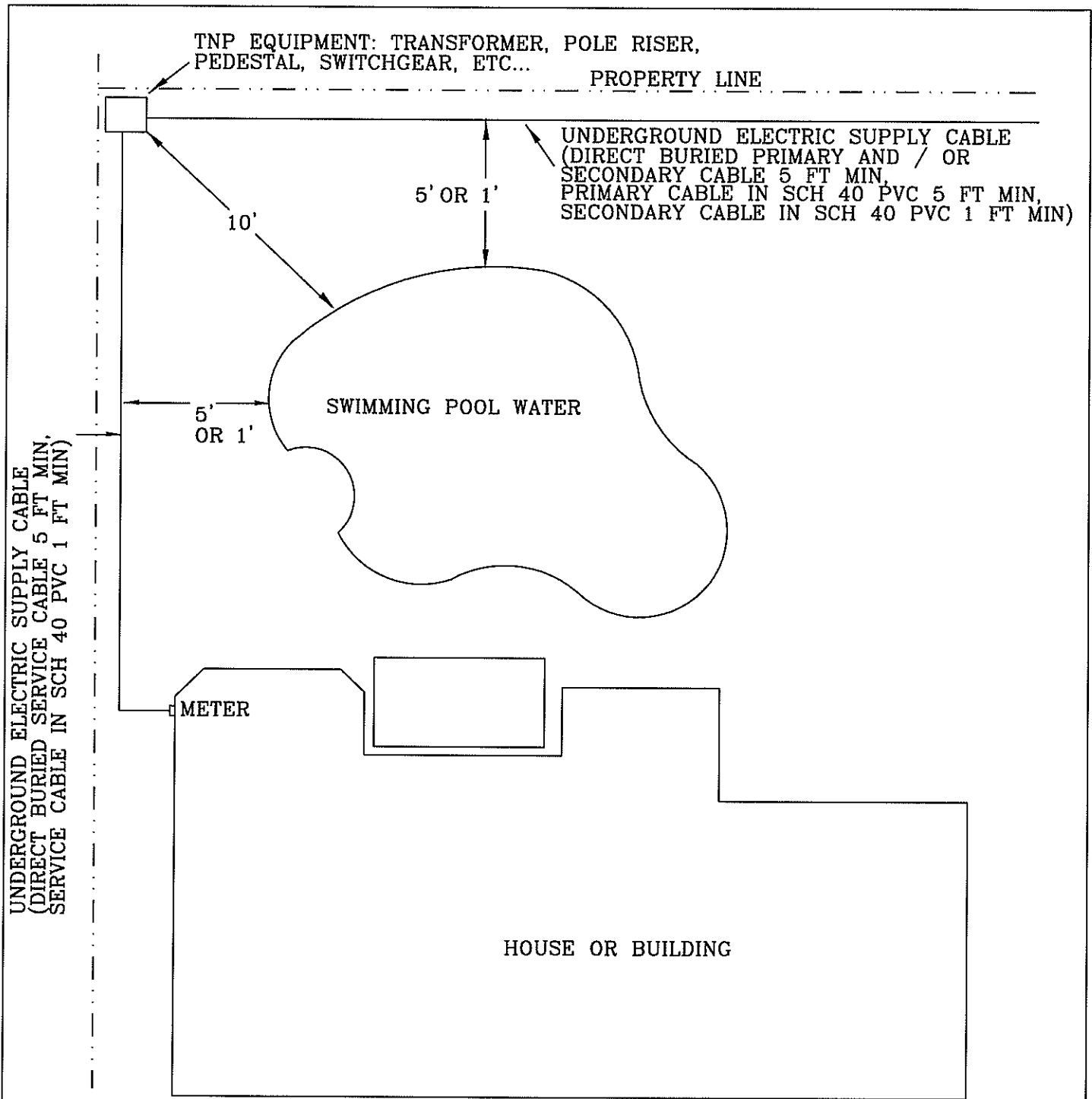
3 FT

10 FT

MINIMUM CLEARANCE FROM FRONT SIDE OF PAD TO LANDSCAPE OR FENCE

TOP VIEW

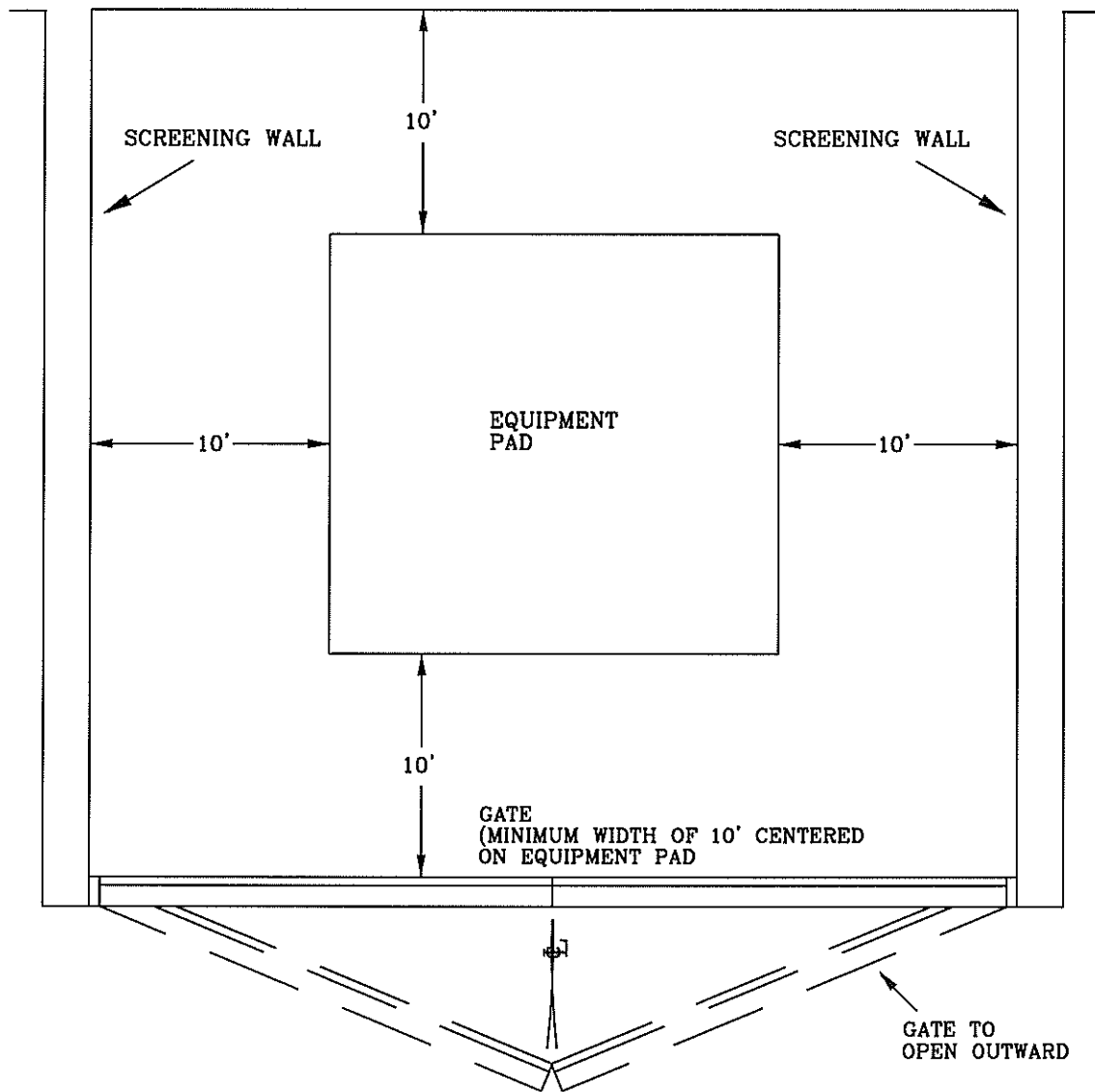
PLANTS NEED TO BE TRIMMED AT LEAST 3 FT FROM PAD AT ALL TIMES



NOTES:

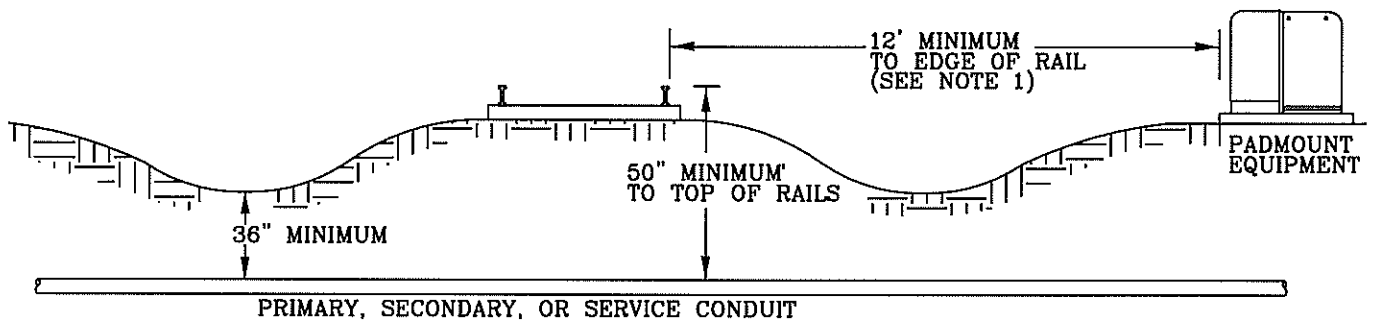
1. A SWIMMING POOL OR ITS AUXILIARY EQUIPMENT INCLUDING WATER PIPES SHALL MAINTAIN THE FOLLOWING DISTANCES FROM ELECTRIC SUPPLY LINES:
 - A. 5 FT OR MORE DISTANCE FROM DIRECT BURIED PRIMARY, SECONDARY, OR SERVICE CABLE.
 - B. 5 FT OR MORE DISTANCE FROM PRIMARY CABLE IN SCHEDULE 40 PVC OR OTHER APPROVED STANDARD CONDUIT.
 - C. 1 FT OR MORE DISTANCE FROM SECONDARY OR SERVICE CABLE OF 600 VOLTS OR LESS IN SCHEDULE 40 PVC OR OTHER APPROVED STANDARD CONDUIT.
 - D. 10 FT OR MORE DISTANCE FROM ELECTRIC SUPPLY EQUIPMENT SUCH AS TRANSFORMERS, RISER POLES, PEDESTALS, SWITCHGEAR, ETC...

SCREENING WALL OR BUILDING WALL (SEE NOTE 2)



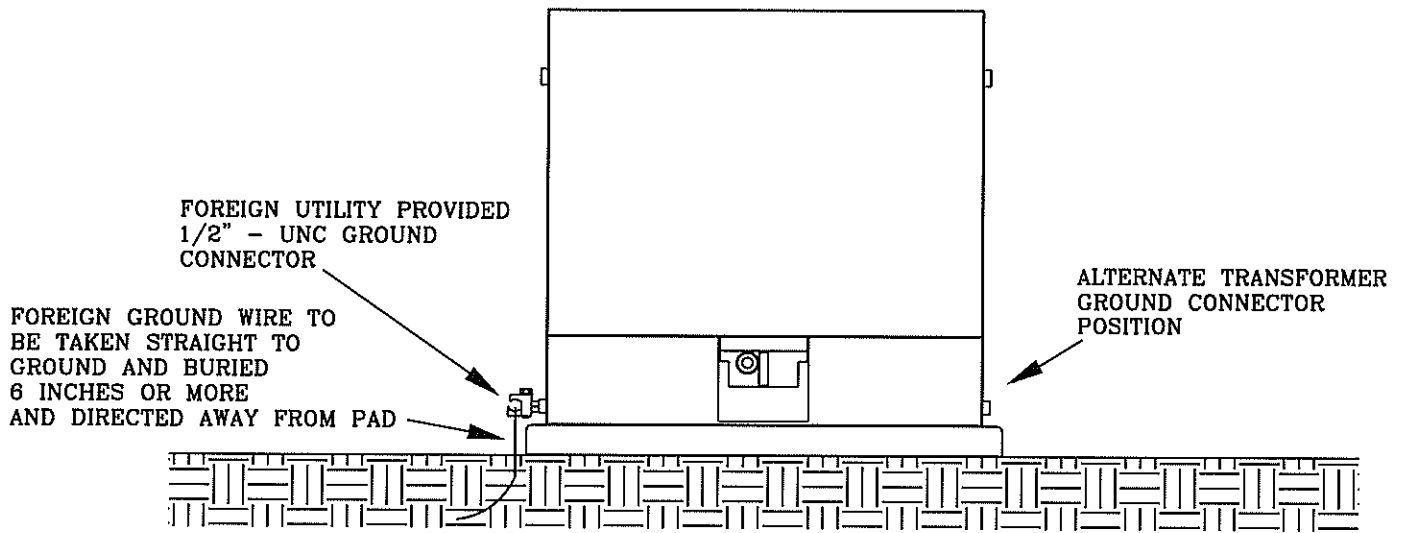
NOTES:

1. DISTANCE MAY BE REDUCED TO 5' IF EQUIPMENT SIDE IS NOT USED FOR HOT STICK SWITCHING.
2. USE UG-2-10 FOR OIL FILLED EQUIPMENT DISTANCES FROM BUILDING WALLS.
3. IF GATE IS LOCKED, TNP LOCK SHALL BE INSTALLED.
4. MINIMUM DISTANCE FROM GATE TO PAD MAY BE REDUCED TO 5' BUT MINIMUM 10' OPEN AREA REQUIRED IN FRONT OF PAD WITH GATE OPEN.
5. WHEN INSTALLING A TRANSFORMER, SCREENING WALLS SHALL PROVIDE ADEQUATE VENTILATION.



NOTES:

1. THIS DISTANCE MAY BE REDUCED TO 7 FT WHERE THE PADMOUNT EQUIPMENT IS NOT THE CONTROLLING OBSTRUCTION PROVIDED SUFFICIENT SPACE FOR A DRIVEWAY IS LEFT FOR LOADING AND UNLOADING CARS.



FRONT VIEW