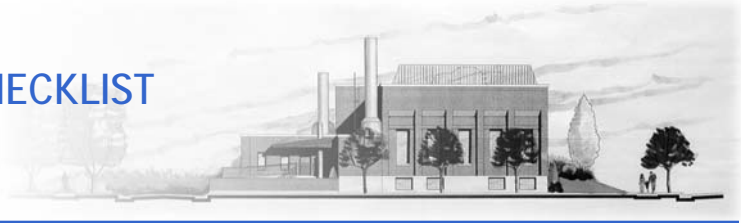
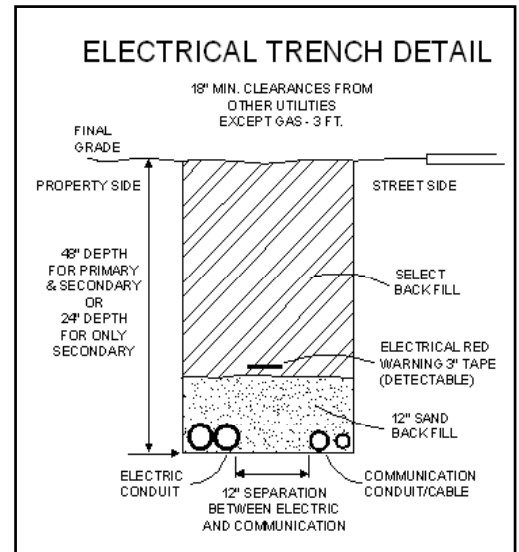


# COMMERCIAL UNDERGROUND SERVICE CHECKLIST



## TRENCHING SPECIFICATIONS

- All trenches must be between 1-4 feet behind property line to avoid removal of property stakes.
- All Primary trenches must be 48" deep.
- All Secondary trenches must be 24" deep. If the secondary conduit is run with primary conduit, the trench depth must be 48" deep.
- It is important that road crossings be placed correctly (site plans are exaggerated for easier reading, they are only approximate). Please contact Logan City Light and Power before placement.
- One foot of sand must be placed on top of conduit followed by 3" wide, red, detectable-foil, electrical warning tape (5 mils thickness).
- Warning tape is to be tied together to form a continuous length, and extending 36" above finish grade by all conduit stubs.
- All trenches MUST be inspected prior to backfilling.
- Trenches should be spot backfilled to prevent movement of tape during backfill.
- Select backfill must be compacted in 1 foot lifts to prevent settling.
- All backfill covering conduit must be brought up to finish grade.
- All areas disturbed by excavation and backfilling construction shall be restored to its original condition, or better by the contractor.



## CONDUIT SPECIFICATIONS

- All conduits must be 3" or 4" gray PVC sch 40. Check site plans or ask about conduit diameter.
- Elbows can be either PVC sch. 40 or rigid steel. All 4" primary elbows MUST have a radius of 36". All 3" primary vertical sweeps MUST have a 24" radius, and horizontal sweeps MUST have a 36" radius.
- If steel elbows are used, they must be taped with anti-corrosion tape or have a plastic coating.
- Continuous lengths of conduit can only have a maximum of four 90-elbows per wire.
- All electrical conduits will be laid on the property side of the trench.
- Phone and cable can be placed in the same trench, but MUST be placed on the roadside with 12" of parallel separation along the electrical conduit. Communication will be placed at the same depth and must be inspected prior to backfilling to ensure appropriate placement.
- Each conduit stubbed out must be marked with the appropriate size conduit.
- Overhead to underground: Contractor will supply one stick (10') of rigid conduit extending from finish grade up the riser pole. Logan City Light and Power will supply the appropriate standoffs to be used to attach the first stick of rigid conduit to the pole.

# COMMERCIAL UNDERGROUND SERVICE CHECKLIST

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## TRANSFORMER PAD SPECIFICATIONS

- Transformer pads will be placed at a minimum of 10' from hard paved surface. Front of pad must face hard paved surface.
- Transformer pad must meet National Electric Safety Code, NEC, state and city clearance requirements. Contact Logan City Light and Power for further details and additional clearances.
- If transformer is installed where contact from a motorized vehicle may occur, contractor must install steel barrier posts. Contact Logan City Light and Power for placement and type of posts.
- Primary conduit are ALWAYS on the left and secondary on the right when facing the pad (Pad usually faces the roadway).
- Transformer pad MUST be inspected prior to pouring concrete.
- A compacted gravel base must be placed under transformer pad.
- Material around transformer conduit and pad must be well compacted to prevent settlement.
- Logan City Light and Power will provide a ground rod to be placed on the primary side of the transformer pad by the contractor.
- See attached pages for clearance drawing and transformer pad specifications.

## SECTIONALIZER SPECIFICATIONS

- Sectionalizers will be placed one foot behind sidewalk and facing hard paved surface. Contact Logan City Light and Power for exact placement.
- Conduits rising into Sectionalizers must be staggered, centered and grouped together to fit into a 36" x 12" opening for three phase and a 20" x 12" opening for single phase
- Ground Sleeve will be set on a sand base. All sleeves will sit level and below finish grade with 6" of sleeve extending above finish grade. Inside grade of pad will be 12" lower than final grade with conduits cut off at lower grade.
- Logan City Light and Power will provide a ground rod to be placed 6" from the conduits within the sectionalizer by the contractor.

LOGAN CITY LIGHT AND POWER

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