

# **Coordination with Others**

## **Coordination with Other Agencies**

Close coordination with any agency that may be involved with, or affected by the project should be a primary concern of the Project Manager and Inspector. This coordination will in most cases involve communication with these agencies at least three times:

1. during the location/design phase
2. at the pre-construction meeting and possibly during construction
3. at project completion

The agency which will take over maintenance of the signal should be contacted and invited to attend the signal turn-on and the final inspection. That agency should also be told (in writing) at what time their responsibility will begin. This responsibility is detailed in Section 00990.70 of the Specifications.

## **Coordination with Agency Electrical Crew & Permits**

It is critical that the Project Manager/Inspector coordinates supplemental inspection with agency electricians and electrical permitting agencies (see 00170.02). According to Oregon Law it is required that specific parts and pieces of the installation be **ONLY** installed by a licensed electrician. Agency electricians and electrical permitting agencies must also verify these installations before the project proceeds or is completed. Pay close attention to the electrical permitting agencies requirements and timelines described in the required permits. Failure to comply with permits will add significant time and cost to the project.

On page three of this document, the parts, pieces and installations requiring an electrician to install, as per the Electrical Board, will be listed.

A list of all employees and their electrical license number should be obtained at the pre-construction conference (see 00960.30). This list must be received before work commences on the project.

# Work that requires an electrical license

## A license is NOT required to:

1. Dig a hole for a footing in the ground
2. Tie rebar cages for the footings
3. Install anchor rods in a footing
4. Form the pole base
5. Unload the poles from a trailer
6. Unload the arms from the trailer
7. Unload light fixtures from trailer
8. Install arms on the poles
9. Install poles onto their bases
10. Uncrate pedestrian signal heads
11. Uncrate vehicle signal heads
12. Assemble ped heads into an assembly, on the ground
13. Assemble vehicle heads into an assembly, on the ground
14. Dig a ditch for conduit
15. Lay conduit along side the ditch
16. Install poly warning tape in ditch above conduit
17. Backfill a ditch with conduit in the ditch
18. Install gravel under junction boxes
19. Install concrete junction boxes
20. Install vehicle detector loops (saw, clean, place wire, seal)

## A license IS required to:

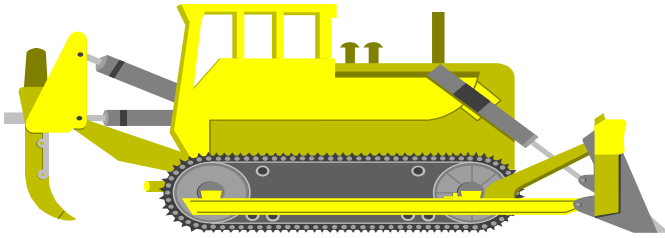
1. Install ground rods and grounding/bonding
2. Install conduit in a footing
3. Install luminaires on the pole
4. Install pedestrian pushbuttons
5. Install pedestrian signal heads
6. Install vehicle signal heads
7. Install interior illuminated signs on pole
8. Assemble and lay ALL conduit in a foundation or ditch
9. Assemble and handle conduit for boring operations
10. Install pull line in conduits
11. pull wire and cable in ALL raceways (conduits, poles, arms)
12. Install ALL wire and making connections
13. Splice and solder loop wires to loop feeder cables
14. install ALL cabinets (terminal, meter base, etc)

# Supplemental Inspection

This schedule has been developed to assist the project inspectors in constructing a signal in compliance with specifications and signal policy. These assisted inspections are the minimum required for each contract.

	<b>Type of Inspection</b>	<b>When to request inspection</b>	<b>Contact</b>	<b>Required Advance Notice</b>
1	pole & controller layout inspection	After curb (or EP) radii are laid out and pole and controller locations are staked	Region Traffic	3 days
2	conduit & backfill inspection	During conduit installation, but before backfill	Region Electricians	3 days
3	in-ground electrical inspection	After forms and conduits are in place, but before foundations are poured	Region Electricians	3 to 5 days
4	loop layout inspection	After crosswalks and loops are laid out, but before cutting begins	Region Traffic	3 days
5	Loop installation inspection	At the beginning of loop installations	Region Electricians	3 to 5 days
6	signal turn-on inspection (00990.70)	At anticipated signal completion date	Region Traffic	1 to 2 weeks

## Utilities



During the construction stage, notifying the utility companies of planned work in the area of their lines may save much time and expense by preventing damage to lines. Many utility companies prefer to expose their own lines if necessary.

Any unknown utilities discovered during construction should be accurately mapped, the location plotted on the As-Constructed Plans for future reference, and the locations given to the District Maintenance Office.

If any utility locations are found to be different from that shown on the plans, then the As-Constructed Plans should indicate the actual location, and the utility owner should be notified of the findings.

**Call Before You Dig!**