



LINE CONSTRUCTION POLICY

**(Includes Service
Installation Guidelines)**



LINE CONSTRUCTION POLICY

(As set forth in Section 7.0 of Tariff #5, filed with the Vermont Public Service Board)

Waitsfield and Champlain Valley Telecom (WCVT) will provide 500 feet of normal construction at no charge to customers. Beyond 500 feet the customer's cost is \$1.75 a foot. **NOTE:** For existing customers requesting a change to their facilities, there will be construction charges associated with the change.

Waitsfield Cable will provide 1,300 feet of normal cable television (CATV) construction at no charge. Beyond 1,300 feet, the customer cost is \$1.25 per foot. **NOTE:** For existing customers requesting a change to their facilities, there will be construction charges associated with the change.

If an additional customer utilizes any portion beyond 500 feet within three years of its construction, the original customer will receive a prorated refund. WCVT's Engineering Department handles all quotes for specific construction charges and rebates.

It is WCVT's Company Policy to comply with the National Electric and Safety Codes, as well as the specifications of the manufacturer's of cable, equipment and systems within the telecommunications industry.

In general, WCVT's construction is overhead, placed on jointly used power poles. The following specifications must be met if a customer requires **buried service**:

CONDUIT REQUIREMENTS:

1. A **minimum 2" schedule-40, PVC electrical conduit must be placed** to customer's demarcation point (NID location). The conduit must be swept up at least 2 ft at both ends with **electrical sweeps, not plumbing elbows**.
2. **3" conduit must be placed on all main line feeds.** (Ex: from pole to pedestal or from pole to "H" frame / Pressure Treated 4x4 Post or from pedestal to pedestal). This excludes service drops. Maximum distance between pull points will be 500 feet.
3. Conduit will be 4 feet above final grade at utility pole location (plumb and tight to utility pole).
4. Conduit will be 2 ft above final grade at pedestal, "H" frame / Pressure Treated 4x4 Post and on the outside of house or structure.
5. **Conduit at mobile home – Preferred Method:** Conduit will be tight to the trailer on the outside of skirting. **Optional Method:** Conduit run will be a maximum of **2 feet** from structure on the outside of skirting to a Pressure Treated 4x4 Post or "H" frame. The Pressure Treated Post or "H" frame will be a minimum of 4 feet above final grade.
6. All conduits must have a pull rope (**no mason string – this will not be accepted**) installed with both ends of the conduit above final grade and securely capped. Pull rope will be continuous, no knots and no splices.
7. Telephone conduit should be placed on the left side of the power conduit (facing structure) and a minimum of 18" away from the power conduit. (See #11)
8. **Do Not Reduce** conduit size.

PLACEMENT:

9. Telecom's conduit must be swept up on the outside of the building or on the electrical "H" frame. Telecom's conduit must be swept up a minimum of 2 ft at the power meter ground location, preferably on the gable side of the building. If an "H" fixture is used, bring the conduit up on the side opposite the power meter.
10. Telecom conduits at pedestal or "H" frame locations must be plumb and tight to (touching) one another.



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NOTE: ALL CONDUITS MUST INCLUDE PULL ROPE AND ALL ENDS MUST BE CAPPED AND / OR SECURED FROM DEBRIS OR WEATHER ELEMENTS.

11. Telecom conduit can be placed in the same trench as the power conduit as long as a minimum 24" depth is maintained.
 - It is advisable to separate the power and telephone conduits by the width of the ditch.
12. WCVT may inspect telephone conduit prior to backfill, to insure proper installation. **An improper conduit install will delay your telecom service hook-up.**
13. If drop wire is CPE (customer provided equipment) coming off a utility pole, a minimum 4 x 4 Pressure Treated Post must be set no less than 15 feet off the utility pole. For placement of the NID and / or CATV Security Box, a **#6 AWG ground must be placed** from the utility pole to a Pressure Treated Post. The Pressure Treated Post **must** be no less than 4 feet high above final grade.
14. Telephone and cable television may share the same conduit in some areas. Please contact WCVT's Engineering Dept. for details.

BONDING AND GROUNDING:

15. The NID (Network Interface Device) and / or CATV Security Box **must not exceed** 20 feet from the power meter ground.
16. **WCVT must have access to a power ground wire and / or power ground rod. This is a safety issue – a "must"** before service can be activated.
17. **The NID must be grounded with power (common bond) or your telecom service will be delayed or denied.**

CUSTOMER WIRING REQUIREMENTS:

18. All telecommunications wire should be Category #3 or higher. It is highly recommended that all telecommunication wire be **Category #5 or higher which is suitable for quality broadband service. All wires should be installed in a "HOME RUN" fashion, NOT IN SERIES.**
19. **TELEPHONE** – We recommend no more than three (3) telecommunication wires be brought to the outside of the (NID) Network Interface Device location. (NID dimensions: 8" W x 9 ½" H. Cover opens from right to left). Termination point should be near electrical panel to feed the NID.
20. **CATV** – We recommend no more than two (2) RG-6 coax cables be brought to the outside CATV Security Box. (CATV dimensions are approximately: 8" W x 12" H. Cover opens from bottom to top)
 - If there are more than two (2) coax cables, we recommend all cables be run to an accessible, indoor distribution point close to an available electrical outlet (such as next to the main power panel for signal amplifier).
 - One (1) or two (2) RG-6 cables should then be run from the outside Security Box to feed the cables at this distribution point.

NOTE: Use of improper cable placed for underground services may prohibit future repairs and the ability to obtain an Inside Wire Maintenance plan from WCVT. We encourage you to call WCVT's Engineering Department at 1.800.496.3391 if you have a question regarding any specifications or how they apply to your situation. Engineering will gladly make a site visit (no charge) to work out the details prior to your installation. WCVT's Engineering Department will conduct a final inspection after all the above conditions are met and before service is activated.

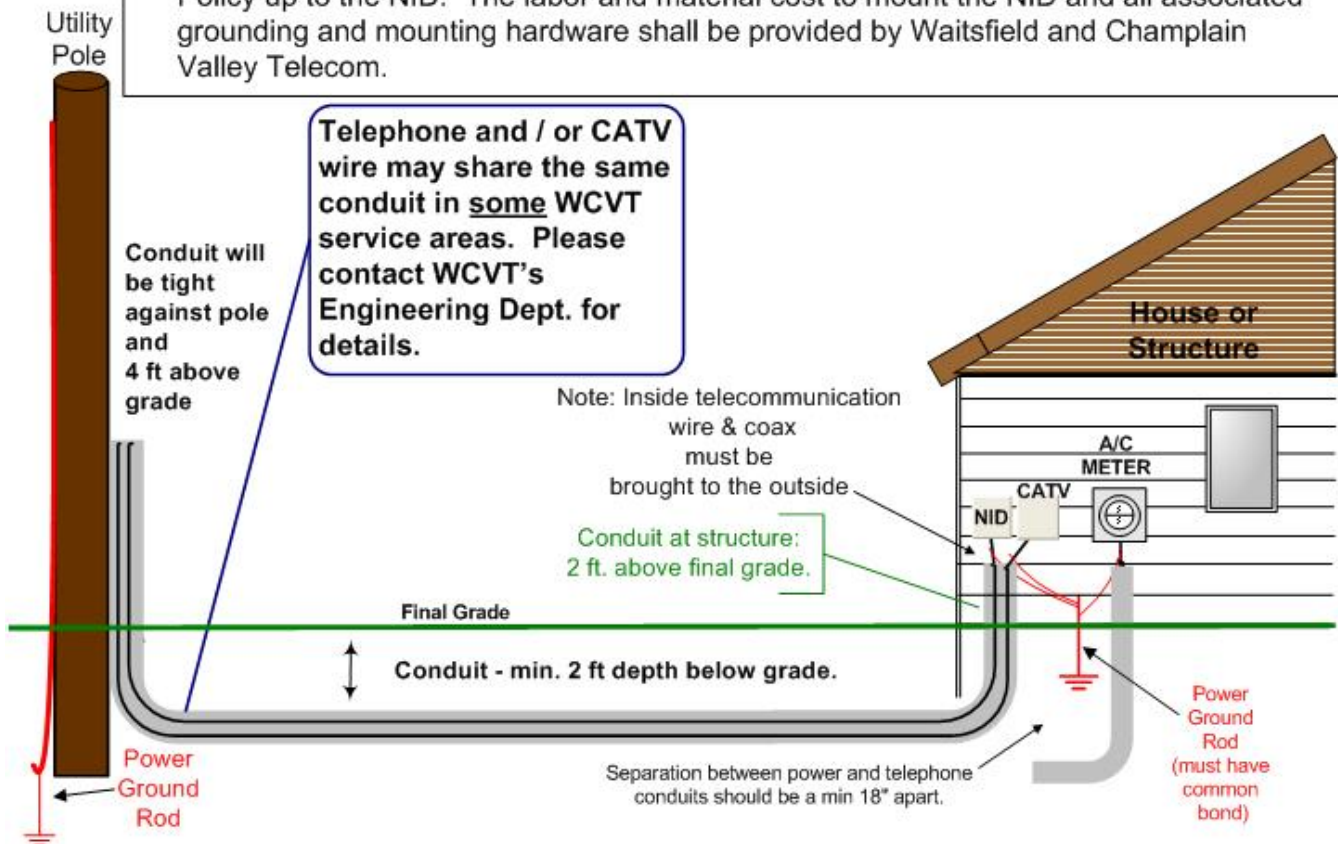
- CONDUIT NOTE:** 4' above final grade at pole, all others 2' above final grade.
- All conduit bends will be electrical sweeps, NO plumbing elbows.
 - All conduit stubs will be plumb and tight to each other.
 - All conduit stubs should be marked with lot / house # or other.
 - All conduits must include pull rope and all ends must be capped and / or secured from debris or weather elements.

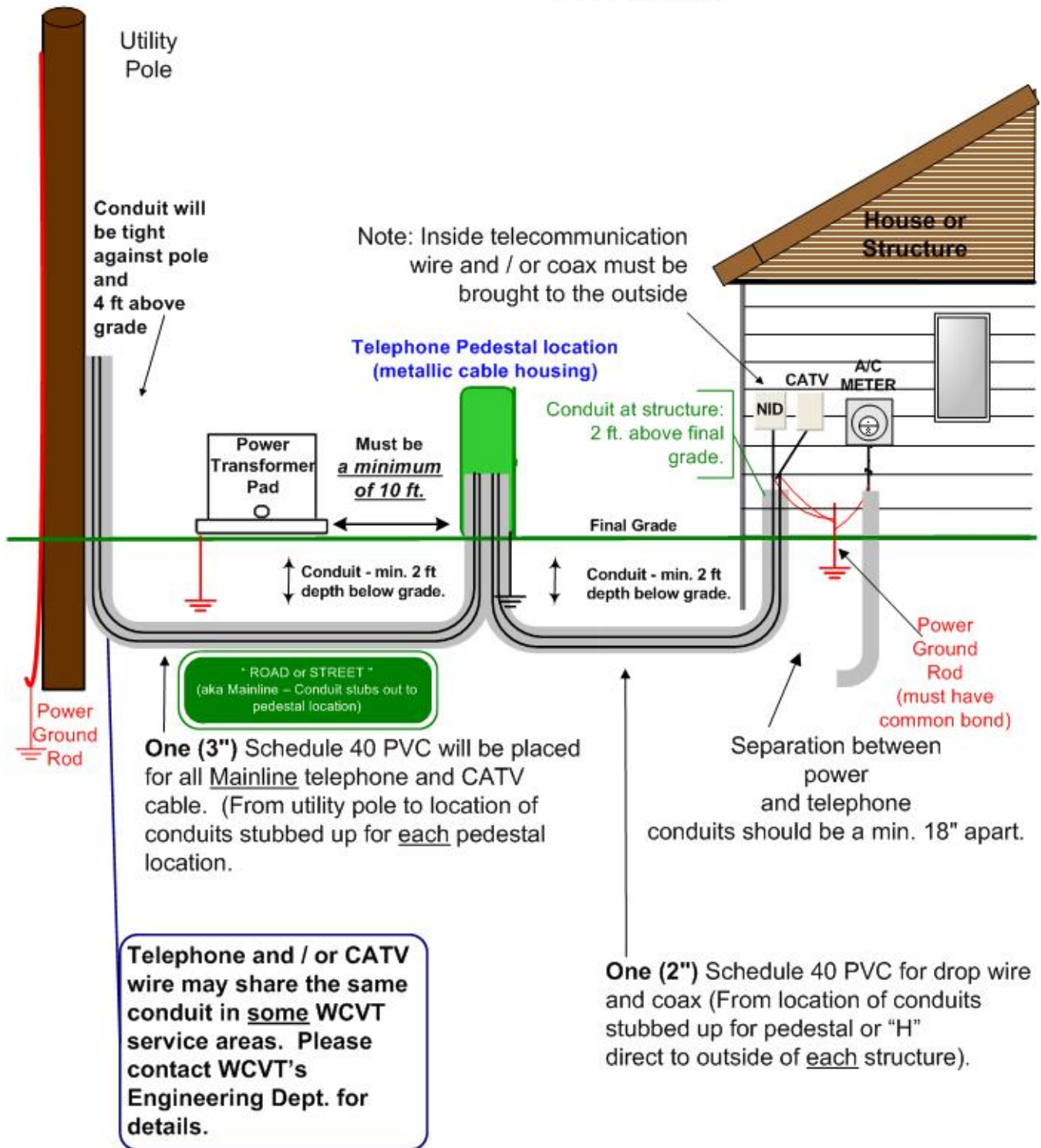
PREFERRED METHOD

NID and CATV conduit(s) will be placed on the outside of the structure. WCVT maintains cable & drop(s) up to the DEMARC location (NID & CATV box). Do not run conduit directly into the foundation / structure.

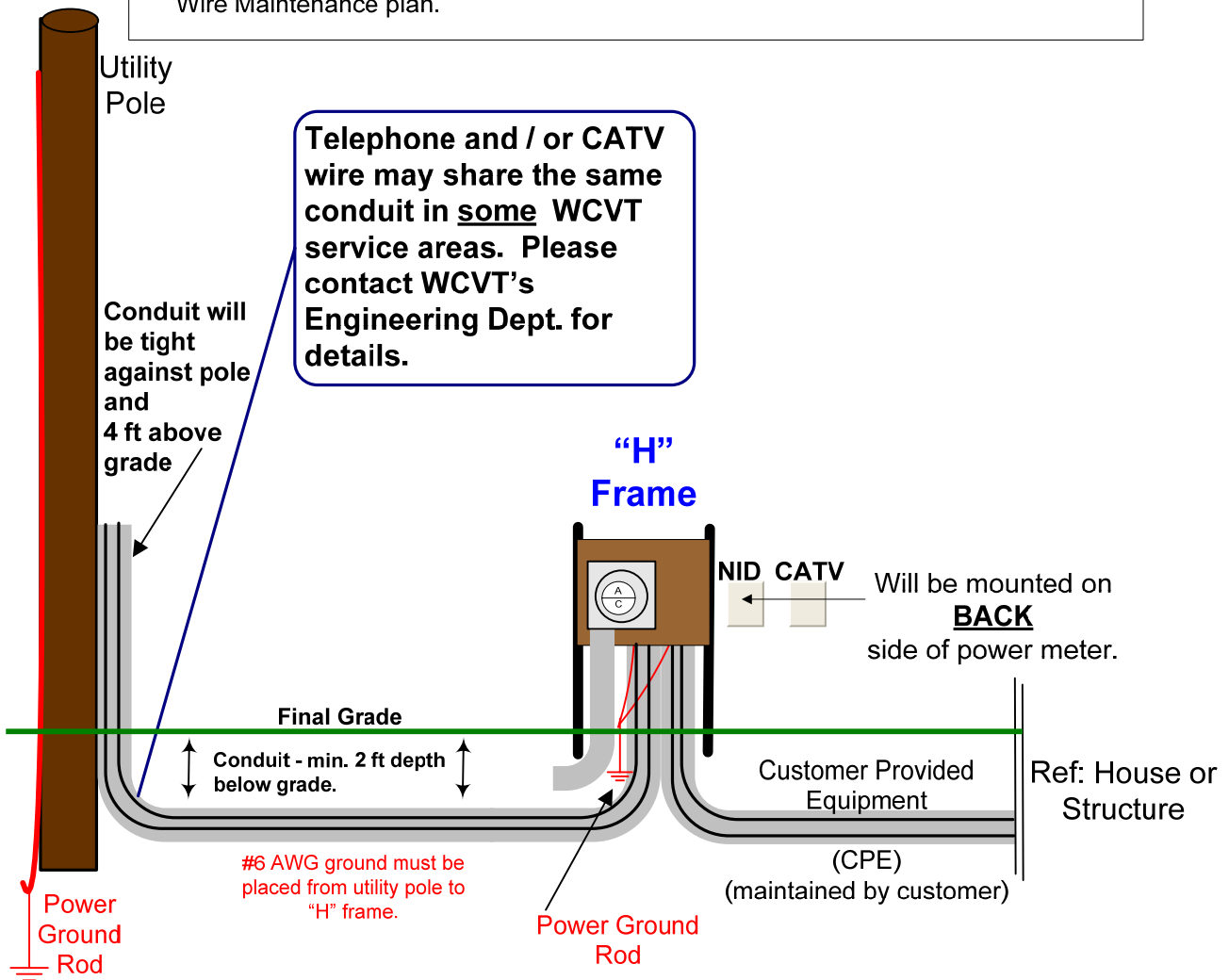
- NID and / or CATV Security Box location will be placed within 20' of the power ground & power meter.
- If the NID and / or CATV Security Box location is beyond 20 feet of the power ground & power meter, it is the customer's responsibility to provide a continuous, uninterrupted #6 AWG ground wire (bonded to **each ground rod) from the power ground(s) to the proposed NID / CATV location.

****NOTE:** Each additional ground rod must have a maximum distance of 20 feet or less**. This is when the power company meter is not located on or adjacent to the structure being served. When the NID and/or CATV Security Box is mounted on the customer's structure, the customer will be required to meet WCVT's Line Construction Policy up to the NID. The labor and material cost to mount the NID and all associated grounding and mounting hardware shall be provided by Waitsfield and Champlain Valley Telecom.





- If customer prefers NID and / or CATV box mounted on an “H” Frame, both will be mounted on the back side of the power meter.
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- If customer uses **shielded underground rated** telecommunications wire from the “H” Frame to the structure, then the customer **will be eligible** for WCVT’s Inside Wire Maintenance plan. Customer will maintain telecommunications wire beyond the NID up to the structure. Customer must provide access to a power ground at the structure in order to properly terminate outside telecommunications wire to customer’s inside wire.
 - If customer chooses **NOT to use shielded** telecommunications wire from the “H” Frame to the structure, then the customer **will NOT be eligible** for WCVT’s Inside Wire Maintenance plan.



- If customer prefers NID and / or CATV box mounted on a Post, both will be mounted on the back side of the power meter.
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- If customer uses **shielded underground rated** telecommunications wire from the Post to the structure, then the customer **will be eligible** for WCVT's Inside Wire Maintenance plan. Customer will maintain telecommunications wire beyond the NID up to the structure. Customer must provide access to a power ground at the structure in order to properly terminate outside telecommunications wire to customer's inside wire.
 - If customer chooses **NOT to use shielded** telecommunications wire from the Post to the structure, then the customer **will NOT be eligible** for WCVT's Inside Wire Maintenance plan.

