**GROUND MOUNTED DETAILS**

WORK BY UTILITY -
- Aerial service entrance cable furnished and installed by utility.
- Splicing of utility's service entrance cable onto Contractor's service entrance cable by utility.
- Termination of Contractor-supplied service entrance cable onto contractor-installed wood pole/transformer.
- Existing/proposed electric utility pole installed by utility (No Work).
- Existing/proposed electric utility meter base installed by utility (No Work).

WORK BY CONTRACTOR -
- Install 30" - 24" radius PVC bend, Schedule 80.
- Warning ribbon 20" above service lateral.
- Contractor furnished and installed Class IV wood pole. Minimum 10' long, see Table on this sheet for setting depths. It is the responsibility of the Contractor to furnish and install a wood pole that is sufficient in length to meet min. roadway clearance of 30'.
- Contractor-installed equipment stand per N-40.20. Channel strut attached to pole per conduit mounting bracket detail.
- Utility meter. Contractor to supply manual bypass type socket.
- Fusible service disconnect switch. Fuse sizes & service rating shown on plan sheets.
- Concrete pull box, 18" will be installed within 5' of every electrical service. No electrical splices permitted.
- 5" x 10" copper clad steel grounding rod electrodes, app. top of ground rod installed 30" below grade and at least 1' off edge of pole or equipment foundation, see detail 5" plate grounding.
- 2" weatherhead and strain relief hardware furnished & installed by Contractor.
- 2" conduit riser. See conduit mounting bracket for mounting details.
- Service entrance cable in conduit by Contractor. All service entrance cable shall be #4-0-0-0-4-0 for 2004 services and #4-0 for 2004 services, or as required by utility.
- Threaded hub type conduit coupling between enclosures sized to accommodate conductors. See plan for wire requirements.
- 1" schedule 80 PVC conduit for ground.
- 1") # 30 AWG-2 grounding electrode conductor in conduit to disconnect switch neutral bus.
- Grounding electrode conductor attached to grounding electrode at least 30" below grade with ground cover suitable for direct burial. From the disconnect switch neutral bus, the grounding electrode conductor must always be directed downward or horizontal.
- Schedule 40 PVC conduit & trench. Conduit shall be 2" minimum. Terminate this conduit in pull box. Conduit installed a minimum of 30" below grade.

NOTES:
1. Contractor must coordinate with utility's field engineer. Contractor shall be responsible for scheduling and coordinating all utilities, related work, and inspections as necessitated by the project.
2. All work and materials shown on electrical service details from the electric utility pole to the disconnect is incidental to power service pay items.
3. Service entrance power conduit systems shall be installed per NEC and local requirements.
4. Do not extend conduit above the secondary or neutral position of any fuse.
5. Conduit shall maintain a minimum clearance of 6" below the secondary or neutral.
6. All proposed service types and locations are subject to approval from utility. Contractor is responsible for furnishing and installing all equipment according to Engineer's approval.
7. If power service is needed to provide 480V, the service shall be a 480/240 single phase service. The contractor shall coordinate with the power company to determine if they have any special requirements for a metered 480 volt service drop, such as but not limited to, an additional enclosure or disconnect ahead of the meter, current transformers, or conduit boxes. If so, the contractor shall modify the power service as needed, as approved by the engineer.

**LEGEND:**
- WORK BY UTILITY -
- WORK BY CONTRACTOR -

**POWER SERVICE**
120/240V, 3 wire, 1 phase or 480/240V, 3 wire, 1 phase
- See Legend on Sheet for Power Service Pole Mounted.

* Not All Items are Used

**SCD NUMBER**
- S T A N D A R D  R O A D W A Y  C O N S T R U C T I O N  D R A W I N G
- Y e r a y
- O F F I C E  O F  E N G I N E E R
- O F F I C E  O F  E N G I N E E R I N G
- D a v i d  L .  H o l s t e i n
- 0 7 - 1 9 - 2 0 1 9

**NOTES:**
- To Local Disconnect or Service as per Plan.