



# Department of Public Works

Construction Management • EP/TCP Team

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## Wireless Communications Installation Guidelines for Clark County

Based on observations over the past several years, and in the interest of safety for all parties involved, the following guidelines are to be implemented going forward.

- Be advised that once the Wireless cell site work has an Encroachment Permit issued, the wireless provider has 90 calendar days to complete all related installation and restoration. If said work is not completed within the required timeframe, installations are subject to removal and be returned to condition in place prior to install. Clark County Construction Management – Development may allow for a single extension of the Encroachment permit for an additional 90 calendar days. If the licensee cannot complete the installation of their facilities within the extended timeframe, installed facilities are to be removed from the right-of-way, no in-place abandonment of installed facilities will be permitted.
- All work in the Clark County right-of-way requires coordination with Clark County Public Works staff
- A preconstruction meeting shall be required for all projects prior to the start of construction.
- When accessing Clark County streetlight facilities for the installation of wireless cell site facilities, no breaking, chipping, or any other partial removal of the concrete foundations shall be allowed. Instead, full removal and replacement of these foundations shall be required per Clark County policies and procedures.
- Accessing Clark County owned pedestals for power facilities shall require the following:
  - The first licensee to require access shall install a number 5 or 7 Clark County owned pull box within 5' of the pedestal as determined by field conditions or right-of-way
  - (4) 2" conduit shall be placed to connect the new number 5 or 7 Clark County owned pull box and the Clark County owned pedestal. See attached specification.
  - Removal and replacement of the pedestal foundation shall be required per Clark County specifications (332.S2 and 623)
  - The number 5 or 7 Clark County owned pull box shall be accessed by all licensees, current and future, to provide a power tie-in point between licensee conduit and County maintained conduit, prior to entering the Clark County pedestal.
  - Pull box shall have composite lid stating "ELECTRIC". (Non-conductive per 326)

- Accessing Clark County pole mounted power facilities shall require the following:
  - Any access to Clark County facilities rated under 200amp will require upgrade to 200amp pedestal or 125amp as determined by field conditions and Clark County Public Works (see notes above for accessing Clark County owned pedestals)
    - Final determination of pedestal size and revision to Site License Agreement to be made by Traffic Management
  - All pole mounted facilities shall become pad mounted facilities upgrading to a surface mounted pedestal and existing RCOC pole shall be replaced with new
  - Per Standard Drawing 321, (2) 1 ¼" conduit shall be placed to connect the new number 3 ½ or 5 Clark County owned pull box and the Clark County pole, in addition to any existing streetlight conduits and conduit required by licensee. If foundation requires replacement, follow 321
  - Removal and replacement of the pole foundation shall be required per Clark County specification 321
  - The number 5 or 7 Clark County owned pull box shall be accessed by all licensees, current and future, to provide a power tie-in point between licensee conduit and County maintained conduit per the Clark County pedestal requirements outlined above.
  - Clark County to determine if original pole(s) is in suitable condition for use elsewhere based on review from Construction Management and Traffic Management.
  
- Clark County power facilities that connect to traffic signals shall not be used for this scope of work.
  - At time of upgrade, any existing facilities connected to a traffic signal pedestal will need to be removed
  
- No subpanels, or stepdown transformers, shall be allowed in lieu of upgrading a power service. Rather, any inadequacies of the power facility shall require a complete upgrade of the power service at no cost to Clark County.
  - All upgrades to power service require approval from, and coordination with, NV Energy, as well as Clark County Public Works.
  - Note: Special conditions apply along Las Vegas Boulevard. Stepdown transformers may be needed. Coordination with Clark County Public Works staff shall be required for determination of stepdown transformer use and location.
  
- All pole mounted equipment that is not owned and maintained by Clark County Public Works shall be installed at least 10' above grade, unless otherwise approved by Clark County.
  
- Power installation to be designed and approved by an electrical engineer currently licensed in the State of Nevada from the proposed facility to the connection point at the Clark County power facility under the following conditions:
  - This requires a new service pedestal foundation and conduit run to proposed facility.
  - A new Clark County owned pull box near the pole, to a new Clark County owned pull box near the power service, to the Clark County power facility, in addition to the licensee facilities. No licensee equipment in Clark County pull box.
  - At the connection point to the Clark County power facility, a new breaker for the new service shall be required.
  - The use of Clark County conduit and Clark County pull boxes shall not be allowed.

- A placard with the 24 hour contact information of the licensee shall be required to be placed at the following locations:
  - The location of the proposed cell site facility (pole mounted) with banding.
  - Sign shall be aluminum with black letters on yellow background, able to withstand varying weather conditions
  - Banded a minimum of 10' from grade, facing away from traffic with a maximum size of 12"x12"
  - Licensee is responsible to ensure that placard remains in good, legible condition for the duration of equipment placed on pole.
- The connection point to the Clark County power facilities to be labeled with address, meter number, and breaker with site name and/or number
- No conduit or wires shall be surface mounted to poles in the Clark County right-of-way at any time.
- No drilling into Clark County poles shall be allowed at any time.
- Restoration of the Clark County right-of-way shall be completed per Clark County standards and specifications.
  - All work must be fully permitted through Clark County with approved inspections from Clark County Public Works staff required for all construction activities.
- All proposed work shall not interrupt service to Clark County facilities at any time.
- Be advised that if a street light is taken out of service due to the proposed work the remaining lights on that power supply must continue to work for the duration of the outage. Clark County does not approve the use of generators or back feeding for maintaining service. The method for maintaining service must be shown on the work plans and coordinated with Clark County Traffic Operations
- Be advised that Clark County will not issue a meter tag for a location that is not substantially complete and has safety issues (i.e. pedestrian safety items, street lights operation, incomplete construction repairs, etc.)
  - Clark County will allow for meter tag issuance for troubleshooting/testing purposes on a case by case basis. Be advised that power usage will be allowed for 5 business days only. If project is not substantially complete with no safety issues after 5 business days, power will be turned off to installed equipment and breaker will be locked until all necessary repairs have been made.
- In addition to the required inspections through Clark County Public Works, Special Inspections are required. Inspections shall be performed by an ICC certified inspector approved by Clark County Building Department; employed by the owner/developer. Provide special inspections in accordance with the 2018 International Building Code and CC Standard Spec 623 for the items listed below:
  - Concrete placement – Continuous
  - Concrete strength – Continuous
  - Grout – Continuous
  - Reinforcing Steel Placement – Periodic
  - Welding
  - Galvanizing
  - Pole Modification
  - Brackets
  - Banding
  - Equipment Installation

- All existing, issued permits shall be completed and finalized by Clark County prior to submittal of any upgrades
- Any revisions to the approved plans may result in stoppage of work until the plans are resubmitted and approved
- It is the responsibility of the licensee to ensure that all substructures are located prior to work start. It is the sole responsibility of the licensee to repair any damage occurring to the substructures as a result of the work
- Failure to complete restoration of the Clark County right-of-way may result in the ability to no longer obtain new permits until all existing, issued permits are completed and finalized by Clark County. Failure to complete restoration may also result in "Lock Out/Tag Out" (See additional supplement for detailed information)

Be advised that these guidelines are to assist the licensee and permittees with the general requirements for submittal and installation of wireless small cell sites. Each site is reviewed on a case-by-case basis. As such, concerns for each site will be addressed individually and may require additional requirements or conditions to be met. Special requirements or conditions on one site will not be given a "blanket" approval for other site(s). It is the responsibility of the licensee and permittee to ensure that due diligence is performed prior to submittal. These guidelines are subject to change periodically due to work and design activities.