

## CITY OF HENDERSON STREETLIGHT NOTES

STREETLIGHTS SHALL GENERALLY CONFORM TO CLARK COUNTY STANDARD DRAWINGS (1988), UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS CLARK COUNTY AREA (1986), THE NATIONAL ELECTRIC CODE INCLUDING ALL ADDENDA AND REVISIONS, AND THE FOLLOWING:

### FOR GREEN VALLEY RANCH, GREEN VALLEY NORTH AND GREEN VALLEY SOUTH ONLY

1. STREETLIGHT POLES SHALL BE NOMINAL 26 FEET SIX INCHES TALL, PRESTRESSED CONCRETE WITH EXPOSED BLACK AND WHITE AGGREGATE, SMOOTH FINISH AND PROTECTIVE GRAFFITI RESISTANT CLEAR COATING (AMERON SPEC. 3.1.7 OR EQUIVALENT). ARMS SHALL BE SIX FEET LONG, TWO-INCH ALUMINUM PIPE WITH RISE FOR A LUMINARIES MOUNTING HEIGHT OF 28 FEET NINE INCHES. POLES SHALL BE AMERON No. 2C2-25A6 OR EQUIVALENT. FOUNDATIONS WILL BE NO LESS THAN 60 INCHES DEEP; CRASH CAP (TOP FOUR INCHES OF THE FOUNDATION) WILL COVER ANCHOR BOLTS. ANCHOR BOLTS PER MANUFACTURER SPECIFICATIONS (ONE INCH BY 36 INCHES BY FOUR INCHES).

### ALL AREAS EXCEPT GREEN VALLEY RANCH, GREEN VALLEY NORTH AND GREEN VALLEY SOUTH

1. STREETLIGHT POLES SHALL BE NOMINAL 30 FEET LONG, STEEL SHEET 11 GAUGE, FACTORY GALVANIZED INSIDE AND OUTSIDE AS PER ASTM A123. ARMS SHALL BE 8 FEET LONG, 2-INCH STEEL PIPE WITH RISE FOR A LUMINAIRE MOUNTING HEIGHT OF 31 FEET 9 INCHES. FOUNDATION WILL BE NOT LESS THAN 48 INCHES DEEP. POLES SHALL CONFORM TO CLARK COUNTY AREA UNIFORM STANDARD DRAWINGS No. 314 & 315.
2. STREET LIGHT LUMINARIES SHALL HAVE A BALLAST VOLTAGE OF 120 V-277V AND SHALL BE:
  - A. FOR 60-FOOT OR LESS RIGHT-OF-WAY STREETS, HENDERSON RESIDENTIAL APPROVED FIXTURES. SEE APPROVED SUPPLIERS LIST.
  - B. FOR 80-FOOT OR MORE RIGHT-OF-WAY STREETS, HENDERSON ARTERIAL APPROVED FIXTURES. SEE APPROVED SUPPLIERS LIST.
3. THE STREET LIGHTING CIRCUIT SHALL BE 240V, 1 PHASE, 2 WIRE (TWO No. 4 AND ONE No. 8 GROUND WIRES IN 1¼-INCH CONDUIT). A No. 10 GREEN WIRE (GROUND) SHALL CONNECT THE LUMINARIES TO THE POLE'S GROUND LUG AT THE BASE.
4. STREETLIGHTS SHALL BE LOCATED BEHIND THE SIDEWALK OR IN THE MEDIAN ISLAND. ALTERNATIVE LOCATIONS MUST BE APPROVED BY CITY OF HENDERSON PUBLIC WORKS. SPACING AND LOCATION OF LIGHTS SHALL CONFORM TO CLARK COUNTY AREA UNIFORM STANDARD DRAWINGS No. 300 THROUGH No. 313, No. 320, AND No. 320.1 WITH ANY ADDENDA AND REVISIONS AS AMENDED BY THE CITY OF HENDERSON. FIELD LOCATIONS MUST BE INSPECTED AND APPROVED BY THE CITY OF HENDERSON. LAYOUT MUST BE APPROVED BY THE CITY OF HENDERSON. FIELD LOCATIONS MUST BE INSPECTED AND APPROVED BY THE CITY OF HENDERSON PRIOR TO DIGGING THE FOUNDATIONS AND TRENCHING FOR CONDUITS.
5. THE DEVELOPER SHALL INSTALL PAD-MOUNTED SERVICE POINTS PER CLARK COUNTY AREA UNIFORM STANDARD DRAWING No. 330, 331, & 332 LOCATED BEHIND THE SIDEWALK. PHOTOCCELL (TORK No. 3000 OR APPROVED EQUIVALENT) MUST BE MOUNTED ON THE SIDE WITHIN THE ENCLOSURE. PROPOSED LOCATION OF SERVICE POINTS MUST BE SHOWN ON THE DRAWINGS SUBJECT TO REVISION BY NV ENERGY. THE SERVICE RUN SHALL BE 120/240V, 1 PHASE, 3 WIRE CIRCUIT BREAKER SECTION WILL BE:
  - A. 125 AMP SERVICE PEDESTAL: (PRIOR AUTHORIZATION REQUIRED FROM COH PUBLIC WORKS.)
    1. 60 AMP DOUBLE POLE/240V – STREETLIGHT CIRCUIT A (WITH CONTACTOR)
    2. 60 AMP DOUBLE POLE/240V – STREETLIGHT CIRCUIT B (WITH CONTACTOR)
    3. 15 AMP SINGLE POLE/120V – PHOTOCCELL
  - B. 200 AMP SERVICE PEDESTAL:
    1. 60 AMP SINGLE POLE/120V – TRAFFIC SIGNAL
    2. 30 AMP SINGLE POLE/120V – INTERSECTION LIGHTS
    3. 60 AMP DOUBLE POLE/240V – STREETLIGHT CIRCUIT A (WITH CONTACTOR)
    4. 60 AMP DOUBLE POLE/240V – STREETLIGHT CIRCUIT B (WITH CONTACTOR)
    5. 15 AMP SINGLE POLE/120V – PHOTOCCELL
6. ALL WIRES SHALL BE THWN OR THW 7-STRAND COPPER.
7. STREETLIGHTS MUST BE OPERATING BEFORE A CERTIFICATE OF OCCUPANCY IS ISSUED.
8. WHEN STREETLIGHTS ARE TO BE CONNECTED TO AN EXISTING CIRCUIT, THE DESIGN ENGINEER MUST CERTIFY THAT THE EXISTING CIRCUIT IS CAPABLE OF HANDLING THE ADDITIONAL CIRCUIT LOAD. EXISTING AND PROPOSED CIRCUIT LOADING MUST BE SHOWN ON THE PLANS. (CALL CITY OF HENDERSON TRAFFIC SERVICES MAINTENANCE AT (702) 267-3200 FOR EXISTING CIRCUIT LOAD INFORMATION.)
9. CONTRACTORS ARE NOT ALLOWED TO HAVE ANY EQUIPMENT OR PERSONNEL WITHIN TEN FEET OF POWER LINES. CONTACT NV ENERGY FOR ASSISTANCE FIVE WORKING DAYS IN ADVANCE IF WORKING WITHIN TEN FEET OF POWER LINES.
10. ALL WALLS OR OTHER OBSTRUCTIONS ARE NOT ALLOWED WITHIN TWO FEET OF THE CENTER OF THE STREETLIGHT POLE PER CLARK COUNTY STANDARD DRAWING No. 320.1.