# LIGHTING

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LIGHTING

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REV. DATE: 11/12 DETAIL: L-00.0

APPROVED:

CITY ENGINEER

PUBLIC WORKS DIRECTOR
NOTES:

1. Improvements constructed under this Standard shall conform to applicable portions of the Standard Specifications for Public Works Construction, latest Edition.
2. Luminaire shall be LED type, G.E. M-250A2 Power/Door luminaire, Cobra Head Roadway Lighting, 120 volt NPF reactor or lag ballast, with luminaire-mounted photoelectric cell. Lens shall be polycarbonate prismatic refractor, "Dome" style, producing I.E.S. medium type III semi-cutoff distribution. Filter shall be fiber gasket type. Equals must be approved by the City Engineer. Where LED bulbs may not be used, HPS bulbs may be substituted with Engineer's approval. A sticker indicating lamp wattage shall be placed on the underside of the arm nearest the pole. For HPS lamps, the sticker shall be yellow with a black number. Wattages shall be 40, 65, 90, or 135 for LED lamps (70, 100, 150, or 250 for high pressure sodium (HFS) lamps). ANY AND ALL OTHER WATTAGES OR BULB TYPES SHALL BE APPROVED BY THE CITY ENGINEER IN WRITING PRIOR TO INSTALLATION.
3. See L-05.0 for pole type and luminaire selection in residential and commercial areas.
4. Light standards shall be manufactured by a centrifugal spinning process using aggregate consisting of black and white pieces, graded from 3/8 inch to a No. 150 sieve, and Type III portland cement conforming to ASTM Designation C150. Reinforcing steel shall consist of deformed steel bars conforming to ASTM Designation 615, and 7-strand uncoated stress-relieved prestressing cable having a minimum ultimate strength of 250,000 PSI. All reinforcing shall be spirally wrapped with cold-drawn wire. The concrete shall develop a minimum compressive strength of 3,500 PSI before removal from the mold. The exterior shall be sandblasted to develop a "marbelite" finish.
5. Underground electrical conduit shall be 1-1/2 inch minimum Schedule 40 P.V.C. electrical conduit, laid with 18 inch minimum cover behind curb within one foot of the curb face, unless shown otherwise on plans. Conduit shall be bundled tightly in the center of the footing. Conduits shall terminate in footings on the same side as the conduit run. A pull box is required within 5 feet of the street light. Conduit shall be "stubbed" not less than 3 inches and not more than 4 inches above the inside surface of street light or pull box.
6. In unmetered lights, install Tron HEB-AB, HEB A-A 30-Amp 600 Volt waterproof in-line fuse and receptacle in each standard base, with a minimum of 12 inches and a maximum of 18 inches in wiring to permit fuse receptacle to be serviced outside the standard. Metered lights and lighting circuits that have circuit breakers installed shall not have in-line fuses installed as well.
7. In addition, all conductor lengths shall be a minimum of 12 inches and a maximum of 18 inches inside hand holes and pull boxes. Contractor shall contact Southern California Edison Company for requirements of service installation, and shall install such service components as Edison requires to energize the system.
8. Power control point shall be the photoelectric cell (PE) located on cobra head pedestal cabinet. Single light has photocell on top of cobra head. Multiple light has photocell on meter pedestal with a by-pass switch.
10. All exposed steel parts shall be galvanized, stainless, or painted.
11. All power access doors shall be stainless steel and cast aluminum or equivalent. The 1/4 inch screws in the access cover shall be s.s. phillips panhead.
13. All lights shall be tested in the presence of the Public Works Inspector prior to acceptance.
14. If 3 or more lights are to be installed, a CP3B, Milbank 16" x 17" x 48" (TYPE B) commercial pedestal meter, in Malaga Green color matching the RAL Classic System color RAL6005 shall be installed, with the following: Meter socket with test bypass facility, 100 amps, 120/240 V, #3 wire, 1 main circuit breaker, 14 KAIC, 12 circuit load center with load test switch.

LIGHT STANDARD: TYPES A-08 AND B-08

NOTES
POLE STANDARD
TYPE A-08

NOTES:
1) Install ground rod in pull box.
2) Maximum 2 conduits per fixture. 3 conduits require adjacent pull box.
3) Dissimilar metals separated dielectrically.
4) All bolts, nuts, washers, and hardware shall be galvanized steel.

POLE ORIENTATIONS

POLE SECTION

NOTE - Infield borings in pole may only be in 90° increments in relation to hand hole.

VCNIACTOR FLUTED POLE (wt. 1200LBS)

POLE MOUNT DETAIL

TOP MOUNT DETAIL

CONCRETE FOUNDATION: CLASS M60-C-450

WITH (4) 15 VERTICAL BARS 4/8" LONG ON A 42" WITH 63 TIES AS SHOWN IN SETUP DETAIL

CONCRETE FOUNDATION: CLASS M50-C-425

WITH (4) 15 VERTICAL BARS 4/8" LONG ON A 42" WITH 63 TIES AS SHOWN IN SETUP DETAIL

4. Baseplate is included
5. (4) 1"x30"x6" galvanized steel bolts & hardware included.
6. Pole Top designed for max 12LA wires 2.1 sq. ft. luminaires.

STREETS:

REV. DATE: 11/12 DETAIL: L-01.1

TRANS GPS:

APPROVED:

FACILITIES:

WATER RESOURCES:

CITY ENGINEER

PUBLIC WORKS DIRECTOR
NOTES:
1) Install ground rod in pull box.
2) Maximum 2 conduits per fixture. 3 conduits require adjacent pull box.
3) Dissimilar metals separated dielectrically.
4) All bolts, nuts, washers, and hardware shall be galvanized steel.

NOTE - infield borings in pole may only be in 90° increments in relation to hand hole.

LOCATE HANDHOLE IN MINIMUM 28" CLEAR SPACE

POLE TOP DETAIL
10" CLEAR COVER (TYP.)
11/2" WALL (TYP.)
K12 GA. SPIRAL STEEL WIRE AT 3° PITCH ASTM A-62
WIRE CLAMP
K11 GA. LONGITUDINAL STEEL WIRE WELDED TO SPIRAL WIRE ASTM A-62

POLE SECTION
7/8" CLEAR SLEEVE, 5-1/16" WIDE SPOOL CIRCLE

POLE TOP DETAIL
VICTORIAN FLUTED POLE (wt. 800 LBS)
MOD-010 POLE TOP DIA. 5-1/8"
TAPERED FLUTED SECTION

POLE ORIENTATIONS
4" DIA. CAST ALUMINUM TOP COLLAR

RECOMMENDED MOUNTING SETUP DETAIL
CONCRETE FOUNDATION: CLASS S450-0-2100
WITH (5) #5 VERTICAL BARS 18" LONG ON A 28" DIA.
WITH 2 TIES AS SHOWN IN SETUP DETAIL

OPTION 1
FOUNDATION: 3' x 3'
DEPTH: 4'
17° BOLT CIRCLE

OPTION 2
FOUNDATION: 27" DIA.
DEPTH: 4'

STREETS: ____________________________
REV. DATE: 11/12 DETAIL: L-02.0
APPROVED: ____________________________
CITY ENGINEER
PUBLIC WORKS DIRECTOR

POLE STANDARD
TYPE B-08

2.Order: Pole VBF-06.2SPL, Victorian Fluted Pole, Pole Mix (ZP38), Santa Barbara Black exposed aggregate finish, with flat water sealer coating ASTM C-150 TYPE III gray cement.
4. Baseplate is included.
5. (4) 3/4"x24"x4" galvanized steel bolts & hardware included.
**LUMINAIRE STANDARD**

**TYPE A-08 AND TYPE B-08**

---

**Description of Components:**

**Lamp:** As specified by Contract requirements. Default shall be LED type.

**Optical System:** (TH3F), I.E.S. type III hyper-extensive (asymmetrical). Horizontal lamp position in a 15 degree angle. **Weather tightness IP66 rating.** This assembly is toolfree removable from the technical ring.

**Ballast:** Matching Ballast included with lamp. Connected to 120 volts. Assembled on a unitized removable tray with quick disconnect plug.

**Access-Mechanism:** A die cast 360 aluminum technical ring with latch and hinge complete with a cast-in reflector. The mechanism shall offer toolfree access to the inside of the luminaire. An embedded memory-retainive gasket shall ensure weatherproofing.

**Central Tubing:** Made of aluminum tubing, 4½" outside diameter, slip fits over a 4" diameter by 9" long pole tenon, mechanically fastened by two levels of 3/8-16 UNC set-screws & a 3/8" Locking Bolt.

**Photo Cell:** Twist lock type photocell, 120 volts, complete with an orientable cover. (Optional)

**Hardware:** All exposed screws will be in stainless steel. All seals and sealing devices are made and/or lined with EPDM and/or silicone.

**Finish:** Lumec custom color **PS311G128 Malaga Green** (SC1TX) or matching RAL Classic System color RAL6005.

**NOTES:**

2. Order: Luminaire as specified by contract (default shall be LED type), and request arm length as specified by contract. Mid Pole Bracket, if required by contract, is pole specific and includes arm.
3. Post Top, Arm, Mid Pole Bracket and installation hardware, including ¾" locking bolt, to be provided by manufacturer.
4. ¾" hole to be drilled in Post Top by Contractor.
5. ¾" bore thru pole tenon for locking bolt to be drilled by Contractor.
6. Post Top & Arm, and Mid Pole Bracket alignment typically perpendicular to curbface, must be prior approved by Project Engineer.
7. Mid Pole Bracket location height on pole is set approximately at 14'. Contractor will bore electrical access hole in pole.
8. Optical system to be aligned in field per Manufacturers Streetside direction label identified in fixture.
9. A sticker indicating lamp wattage shall be placed on the underside of the arm nearest the pole. For HPS lamps, the sticker shall be yellow with a black number.
NOTES:
1) Install ground rod in pull box.
2) Maximum 2 conduits per fixture. 3 conduits require adjacent pull box.
3) Dissimilar metals separated dielectrically.
4) All bolts, nuts, washers, and hardware shall be galvanized steel.

NOTE - Infield borings in pole may only be in 90° increments in relation to hand hole.

PULLBOX

1. CONC. PULL BOX WITH BASE PER DETAIL L-04-4, WITH LONG FACE 6" FROM AND PARALLEL TO BACK OF CURB. PLACED FOR ENGINEER SPECIFICATIONS
2. 2-1/4"-20 U.L. Door Attachment Screws
3. 4) #5 TTIES IN TOP 1/2 & ONE BOTTOM

HANDHOLE

FINISH GRADE, NON-SHRINK GROUT
ROUGH FOUNDATION LEVEL
1" CONDUIT TO PULL BOX

POLE ORIENTATIONS

VIEW A

VIEW A SEE POLE TOP DETAIL

POLE TOP DETAIL

NOTE - Infield borings in pole may only be in 90° increments in relation to hand hole.

POLY SHIELD 4" ID.

POLE SECTION

RECOMMENDED MOUNTING SETUP DETAIL

CONCRETE FOUNDATION; CLASS 960-C-3250
WITH NO. 5 VERTICAL BARS 30" LONG ON A 8X8"
WITH 6 TIES AS SHOWN IN DETAIL

OPTION 1

FOUNDATION 2X2
DEPTH 2

1/4" BOLT CIRCLE

4) 1" DIA. HOLES @ 90°

OPTION 2

FOUNDATION 2X2A
DEPTH 2A

1/4" BOLT CIRCLE

4) 1" DIA. HOLES @ 90°

VICTORIAN FLUTED POLE (wt. 500LBS)

MODERN POLE TOP
DIA: 5.50"

TAPERED FLUTED SECTION

POLE TOP DETAIL

1/2 CLEAR COVER (TYP.)
1/2" DIAM. SPRING STEEL WIRE AT 1" PITCH
ASTM A416

POLE STANDARD
TYPE C-08

NOTES:
1. Contact: Pacifc Lighting Sales Inc. 2366 Birchter Drive, Suite 100 Lake Forest, CA 92630, (949) 597-1333, http://www.pls-inc.com
2. Order: Pole VBF04.75PL, Victorian Fluted Pole, Pole Mix (2P3S) Santa Barbara Black & White exposed aggregate finish, with flat water seal coating - ASTM C-160 Type III gray cement.
4. Baseplate is included.
5. 4) 1/4" x 2" x 4" galvanized steel bolts & hardware included.
6. MOD-BM: Plug down pole length to 14'-3" OAL.

STREETS:

REV. DATE: 11/12 DETAIL: L-O3.0
TRANS. OPS:
APPROVED: W. K. Hall
FACILITIES:
WATER RESOURCES:
PUBLIC WORKS DIRECTOR

Christine Anderson
Description of Components:

Lamp: As specified by Contract Requirements. Default shall be LED type.

Optical System: (SG2), I.E.S. type II (asymmetrical). Reflector composed of a chemically brightened multi-faceted anodized aluminum, mounted on a white frame. This assembly allows for a full rotation of the optical system in 90 degree increments.

Ballast: Matching Ballast included with Lamp. Connected to 120 volts. Assembled on a unitized removable tray with quick disconnect plug.

Access-Mechanism: A die cast A380 aluminum technical ring with a cast-in decorative skirt. An integrated hinge and a captive knurled thumb screw offer a tool free access to the inside of the luminaire and to the lamp. An embedded memory-retentive gasket shall ensure weatherproofing.

Central Tubing: Made of aluminum tubing, 4½" outside diameter, slip fits over a 4" diameter by 9" long pole tenon, mechanically fastened by two levels of 3/8-16 UNC sets-screws.

Photo Cell: Twist lock type photocell, 120 volts, complete with an orientable cover. (Optional)

Hardware: All exposed screws will be in stainless steel. All seals and sealing devices are made and/or lined with EPDM and/or silicone.

Finish: Lumeo custom color PS311G128 Malaga Green (SC1TX) or matching RAL Classic System color RAL6005.

NOTES:
2. Order: Luminaire as specified by contract (default shall be LED type), and request arm length as specified by contract. Mid Pole Bracket, if required by contract, is pole specific and includes arm.
3. Post Top, Arm, Mid Pole Bracket and installation hardware, including ½" locking bolt, to be provided by manufacturer.
4. ¾" hole to be drilled in Post Top by Contractor.
5. ¾" bore hole thru pole tenon for locking bolt to be drilled by Contractor.
6. Post Top & Arm, and Mid Pole Bracket alignment typically perpendicular to curbface, must be prior approved by Project Engineer.
7. Mid Pole Bracket location height on pole is set approximately at 14'. Contractor will bore electrical access hole in pole.
8. Optical system to be aligned field per Manufacturers Streetside direction label identified in fixture.
9. A sticker indicating lamp wattage shall be placed on the underside of the arm nearest the pole. For HPS lamps, the sticker shall be yellow with a black number.

LUMINAIRE STANDARD
TYPE C-08
NOTES:

1. Pull box shall be Christy N9 pull box with N9T skid resistant Fibrelyte lid with bolt downs unless otherwise specified.

2. Bottom of pull box shall rest firmly on a 12 inch thick bed of 1 inch crushed rock extending 6 inches beyond the outside walls of the box.
NOTES:
1. All ornamental street lighting cable systems shall be underground, rather than overhead.
2. Location of street light standards to be approved by City Building Maintenance (805) 564-5415, prior to installation.
3. Residential light standards shall be spaced on lot lines not more than two hundred-fifty (250) feet apart approximately.
4. Where commercial or industrial lot frontages are involved, light standards shall be spaced one hundred (100) feet apart.
5. All other features of street lighting systems shall meet the requirements of the Public Works Department which shall be established to achieve safety, maximum life, low maintenance cost, adequate illumination and structural soundness.
6. All pull boxes shall be set at the back of the curb. Roadway pull boxes are for replacement purposes only.
7. All pull boxes shall be set in accordance with N.E.C. and CALTRANS Standards.
8. When the distance between street lights is greater than 100 feet, a pull box must be set every 100 feet for pulling wire.
9. Recommended Pole Type and Luminaire for Commercial or Residential Use:

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<tr>
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<th>Pole Type</th>
<th>Watt - Output</th>
<th>Order Part #: HPS/LED**</th>
</tr>
</thead>
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<tr>
<td>Intersection**</td>
<td>A</td>
<td>250</td>
<td>HPS: DMS55-250HPS-TH3F-QTA/120-1A-SC1TX</td>
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<td>LED: DMS55-135W80LED4K-ES-LE3F-120-(B-LCP-031)-1A-SCZT311G151TX</td>
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<td>Mid-Block</td>
<td>A</td>
<td>250</td>
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<td>Sidewalk</td>
<td>C</td>
<td>70</td>
<td>HPS: DOS-70HPS-SG2-120-LMS-1A-SC1TX</td>
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<td></td>
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<td>LED: DOS-40W30LED4K-ES-LE2F-120-(B-LCP-030)-1A-TS-SCZT311G151TX</td>
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<th>Location</th>
<th>Pole Type</th>
<th>Watt - Output</th>
<th>Order Part #: HPS/LED**</th>
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<tbody>
<tr>
<td>Intersection**</td>
<td>B</td>
<td>150*</td>
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*Alternate Output: 100

**Listed LED Part#’s are HPS Wattage Output equivalents

***In residential and commercial areas where there are two lights diagonal from each other across an intersection, 65 watt LED (or 100 watt HPS) bulbs may be used.
# STATE STREET ORNAMENTAL PARTS LIST

FOR PROPRIETY CITY LIGHTING WITH CITY OWNED MOLDS.
CONTACT FACILITIES MAINTENANCE FOR VENDOR IDENTIFICATION.

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<td>23-64831</td>
<td>CENTER RING</td>
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<td>23-64820</td>
<td>BOTTOM RING</td>
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<td>23-79760</td>
<td>SHORT STAVE</td>
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<td>23-70903</td>
<td>LONG STAVE</td>
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<td>23-90700</td>
<td>TOP COVER</td>
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<tr>
<td>N/A</td>
<td>LARGE LEXAN LENS</td>
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**NOTES:**
1. FOR FOOTING, SEE CITY STANDARD L-02.0 RECOMMENDED MOUNTING SETUP DETAIL (TYPE B)
2. CONTACT CITY BUILDING MAINTENANCE AT (805) 564-5415 FOR LIGHT STANDARD INFORMATION.

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STATE STREET DECORATIVE LIGHT STANDARD

REV. DATE: 11/12 DETAIL: L-06.0

STREETS:  
TRANS OPS:  
FACILITIES:  
WATER RESOURCES:  
PUBLIC WORKS DIRECTOR:
NOTES:

1. Pole is the standard Caltrans type, painted "Malaga Green" color matching the RAL Classic System color "RAL6005"
2. Light standard is 30 feet tall from the sidewalk to the base of the finial.
3. For foundation, see Standard Detail L-01.1 Recommended Mounting Setup Detail.
METER PEDESTAL

NOTES:
1. Control cabinet shall be U/L listed "Industrial Control Panel" per UL 508.
2. Construction shall be NEMA 3R.
3. Voltage ratings of service equipment shall conform to the service voltages indicated on the plans.
4. Service equipment enclosure and metering equipment shall meet the requirements of the serving utility. When the serving utility provides both metered and unmetered circuits, a separate bus shall be provided for each circuit. The meter area shall have a sealable, lockable, raintight cover that can be removed without the use of tools.
5. Service equipment shall be factory wired and conform to NEMA standards.
6. The exterior door shall have provisions for padlocking. The padlock hole shall be a minimum diameter of 11 mm.
7. All terminals for incoming service conductors shall be compatible with either copper or aluminum conductors sized to suit the conductors shown on the plan. Terminal lugs shall be copper or tin-plated aluminum. Solid neutral terminal strip shall be rated 125A unless otherwise specified and for use with copper or aluminum conductors. The terminal should include but not limited to:
   A. Incoming terminals (landing lugs)
   B. Neutral lugs
   C. Solid neutral terminal strip
   D. Terminal strips for conductors within the enclosure
8. At least 6 standard single pole circuit breaker spaces (20 mm nominal) shall be provided for branch circuits. Circuit breaker interiors shall be copper. Interiors shall accept plug-in or cable-in/cable-out circuit breakers.
9. Plug-in circuit breakers may be mounted in the vertical or horizontal position. Cable-in/cable-out circuit breakers shall be mounted in the vertical position.
10. Fasteners on the exterior of the enclosure shall be vandal resistant and shall not be removable from the exterior. All nuts, bolts, screws, washers, and hinges shall be stainless steel.
11. Phenolic name plates shall be provided as required.
12. A plastic covered wiring diagram shall be attached to the inside of the front door.
13. Foundation shall be 24"x24"x12" and extend 3" (76 mm) beyond edges of enclosure.
14. There shall be at least 36" (914 mm) clearance at front and back of meter pedestal as required per N.E.C. 110-16.
15. Front of meter shall not face the street. Directional placement shall be at discretion of inspector.
16. Exterior color of meter pedestal shall be "Malaga Green" matching the RAL Classic System color "RAL 6005"

METER SOCKET
(100 AMP MINIMUM)
FACTORY WIRED FROM
LINE LANDING LUGS
TO METER SOCKET IN
A SEPARATE WIREFWAY

HINGED DEMAND METER
RESET COVER WITH
2"x4" (51 mm x 102 mm)
WINDOW.
4-½" x 6" (114 mm x 152 mm)
ACCESS OPENING.
PADLOCKABLE.

BASE MOUNTED WITH
(4) ¾"-11x12"
(450 mm 16 UNC)
GALVANIZED STEEL
ANCHOR BOLTS

MINIMUM 1% SLOPE

CONCRETE FOUNDATION:
520-C-2500
24"x24"x12" WITH
(2) #3 BARS EACH WAY
18" LONG AT 3" OFF BOTTOM

SERVICE CONDUIT

GROUND ROD WITH GROUND CLAMP
¾" x 120" (19 mm x 3000 mm)

2 LOAD CONDUITS

MOUNTING BASE DETAIL
(TOP VIEW)

METER PEDESTAL

STREETS:

REV. DATE: 11/12 DETAIL: L-09.0

TRANSPORTATION:

APPROVED:

FACILITIES:

WATER RESOURCES:

CITY ENGINEER

PUBLIC WORKS DIRECTOR

City of Rancho Cordova, California