RESOLUTION NO. 28068

RESOLUTION OF THE COUNCIL OF THE CITY OF SANTA ROSA AMENDING RESOLUTION NUMBER 20741 ADOPTING REVISED STREET LIGHT DESIGN STANDARDS

WHEREAS, the Council of the City of Santa Rosa, by Resolution number 10498, as amended by Resolutions numbered; 10902, 11135, 11401, 11780, 11971, 13219, 13621, 13879, 15218, 16586, 16814, 17832, 17943, 18034, 18342, 19420, 19641 and 20741 adopted Street Light Standards for the City of Santa Rosa; and

WHEREAS, revisions are periodically made to the Standards pursuant to Santa Rosa City Code section 18-04.070; and

WHEREAS, the proposed revisions and additions were reviewed and approved by the Transportation and Public Works Department.

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Santa Rosa that Resolution Number 20741 is hereby amended to adopt the changes described on the attached Exhibit “A” entitled “Street Light Standards.”

BE IT FURTHER RESOLVED by the Council that the new “Street Light Standards” shall be effective 30 days after the resolution adoption date for improvement plans submitted to the City for review and approval and for City Contracts.

IN COUNCIL DULY PASSED this 3rd day of April, 2012.

AYES: (7) Mayor Olivares, Vice Mayor Sawyer, Council Members Bartley, Gorin, Ours, Vas Dupre, Wysocky

NOES: (0)

ABSENT: (0)

ABSTAIN: (0)
STREET LIGHT DESIGN STANDARDS (Revised)

Adopted by the Santa Rosa City Council
Resolution No.
November 15, 2011
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Typical Street Light Standards

DESCRIPTION

600 Series

General

601  Pull Box Installation
602  Street Light Standard Wiring Diagram
603A Electrical Service Detail - Underground Service
603B Electrical Service Detail - Overhead Service
604  Street Light Priority Spacing

Poles

610  Street Lights - Major Streets
611  Street Lights - Collector Streets
612  Street Lights - Minor Streets
613  Optional Decorative Street Lights - Minor Streets
614  Street Lights - Railroad Square
615A Street Lights - Central Business District - Design #1
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615C Street Lights - Central Business District - Decorative Light

Bases and Trenching

620A Concrete Footing Detail - Standard Street Light Pole
620B Concrete Footing Detail - Decorative Street Light Pole
620C Concrete Footing Detail - Decorative Street Light (CBD)
621  Street Light Base Leveling Detail
625  Joint Trench Layout for Street Light Conduit
STREET LIGHT STANDARDS

I. Definitions and Abbreviations

"California Standard Plans" shall mean the latest edition of the Standard Plans adopted by the California Department of Transportation.

"California Standard Specifications" shall mean the latest edition of the Standard Specifications adopted by the California Department of Transportation.

"City Engineer" for the purposes of the Streetlight Standards, shall mean the Director of Transportation and Public Works - City Engineer of the City of Santa Rosa, who shall be a Civil Engineer registered by the State of California and who shall be designated by the City Council to discharge those duties prescribed hereinafter to be performed by the City Engineer.

"City Traffic Engineer" for the purposes of the Streetlight Standards, shall mean that person designated by the City Manager to serve as City Traffic Engineer.

"Collector Street" shall have the primary purpose of intercepting traffic from intersecting minor streets and handling traffic to the nearest major street or intercepting traffic from one collector street and handling traffic to another collector street. It shall serve as an access to abutting properties.

"Cul-de-sac Street" shall have the primary purpose of serving abutting land use and connecting to the nearest minor street or collector street. It is not intended to pass traffic through to another street and is a local street with only one outlet.

"Electrolier" is the complete street light assembly consisting of street light pole, luminaire, ballast and lamp.

“Induction” shall mean a high frequency (HF) light source using gas filled tubes without the use of an electrode starter.

“LAMP” shall mean a light source created by use of an Induction or LED system.

“Light Emitting Diode (LED)” shall mean a lamp consisting of a solid state light source using semiconductor diodes to generate light rather than a vacuum or gas tube.

"Luminaire" is a complete lighting unit consisting of lamp, or lamps together with the parts designed to distribute the light, to position and protect the lamps and to connect the lamps to the power supply.

"Major Street” shall mean a street whose primary purpose is to carry through traffic and means a fast or heavy street of considerable continuity which is used primarily as a traffic way to facilitate movement of heavy traffic between major residential areas or major residential areas and commercial areas.

"Minor Street” shall have the primary purpose of serving abutting land use and handling traffic to the nearest collector street.
"Transportation and Public Works Department" shall mean the Transportation and Public Works Department of the City of Santa Rosa.

"Street Light Standard Plan" shall mean a typical standard of the Street Light Standards of the City of Santa Rosa.

"Variance" shall mean in accordance with Section 18-12.040 of the Santa Rosa City Code.

ASTM American Society for Testing and Materials

AWG American Wire Gauge

FC Footcandle

HID High Intensity Discharge

IES Illuminating Engineering Society of North America

NEC National Electric Code

NEMA National Electrical Manufacturers Association

P.G. & E. Pacific Gas & Electric Company

PVC Polyvinyl Chloride

UL Underwriters' Laboratories Inc.

U/R Uniformity Ratio

II. General

A. These Street Light Standards shall be used for all street lights on public streets in the City of Santa Rosa.

B. These standards shall apply as of the date of adoption and are not considered retroactive.

C. Deviations from these standards shall require specific approval of the City Engineer through the variance process.

D. These standards do not preclude the use of a higher standard.

E. The purpose of the standards and specifications contained herein is to establish uniform standards for street lights on public streets in the City of Santa Rosa, installed after the date of adoption of these standards. This document is not intended or designed as, nor does it establish, a legal standard for lighting.

F. Encroachment onto any City street, right-of-way, or public utility easement shall require an encroachment permit issued by the City of Santa Rosa.
G. Street light designs utilizing multi corner locations, median, or additional street light locations other than those per the standard shall require specific approval of the City Engineer.

H. Electrical service shall conform to the requirements of Standard Plans 603A and 603B.

I. All street lighting projects are subject to approval by the City Engineer. Design shall conform to these requirements except as otherwise approved by the City Engineer.

J. The City Engineer shall designate specific connection points for connecting new street lights into the existing multiple street light system. The City Engineer shall only authorize energization after City acceptance of the installation.

K. The following additional requirements apply to street light systems installed by private developers:

1. The developer/engineer shall make arrangements with P.G. & E for service points. Service points shall be shown on the improvement plans. The developer shall be responsible for all costs associated therewith which shall be paid directly to P.G. & E. The contractor shall verify the street light service point location(s) with P.G. & E. prior to installation. The City will request energization from P.G. & E.

2. The developer shall install the following in accordance with the Street Light Standard Plans: concrete foundations, street light poles, mast arms of the appropriate lengths, and wiring (leaving 2 feet of wiring extending from the mast arm to allow connection to the standard luminaire by City forces at a later date).

3. Except as noted in #4 below, a fee per luminaire shall be collected from the developer prior to final/parcel map approval for subdivision developments or prior to improvement plan approval in all other types of development.

4. For Street Light Standard 613, 614, and 615 series the developer shall install the entire lighting system, including the luminaire.

5. For all developments outside of the Santa Rosa City Limits but within the Santa Rosa urban boundary, the developer shall install the entire lighting system, including the luminaire.

6. All street light systems utilizing street light lamps up to, and including, 150 watts shall be designed for 120 volt service unless connecting to an existing system. Street light systems utilizing street light lamps above 150 watts shall require 240 volt service. In the latter case, the design shall conform to the system being connected to and must be specifically approved by the City Engineer.

III. Roadway Illumination Requirements

A. Design Conformity

Street light systems shall be in accordance with the current City Standards and Policies.
B. Street Light Requirements

1. Street lights are to be provided and to remain on, controlled by a photocell, when meeting the following criteria;
   a. All safety lighting that is co-mounted with traffic signals
   b. All lighting directly adjacent to or incorporated with pedestrian activated flashing beacons or mid-block crosswalks.
   c. Lighting within high pedestrian zones, such as downtown.
   d. One light will remain on at key traffic safety locations where there has been a documented history of traffic safety issues.

2. Street lights in City Council designated Neighborhood Revitalization Program (NRP) zones will remain but locations reviewed for efficiency.

C. Street Light Location Criteria

1. Street lights are to be installed in the following priority and the location will be determined by the City Engineer during the improvement plan review process;
   a. At signalized intersections street lights are to be installed at all four corners of a signalized intersection.
   b. A minimum of one light will be installed at all intersections.
   c. One light will be installed at high pedestrian zones, mid block crossings with pedestrian activated flashers, and main commercial centers, as determined by the City Traffic Engineer.
   d. Between intersections over 300 feet one light will be installed at a mid block location to be controlled by a programmable photo-cell timer.
   e. Between intersections over 600 feet one light will be installed at a mid-block location to be controlled by regular non programmable photocell.

2. Design for infill projects are to incorporate revisions to the existing public street light system consistent with this document.

D. Lateral Light Distribution

1. Lateral light distribution patterns shall conform to Illuminating Engineering Society of North America (I.E.S.) lateral light distribution patterns shown in Street Light Standard Plan 604 and as follows:
   a. Street lights mounted at the terminus of a cul-de-sac: I.E.S. Type 4.

2. Design shall conform to these requirements except as specifically approved by the City Engineer.
IV. Street Lights

A. Overhead Style Streetlights

1. The luminaire shall be an Induction or LED type as approved by the City.

2. Street light poles and mastarms shall be galvanized steel.

3. The street light poles shall be an Ameron Series PL, Landmark Lighting S3508, Pacific Union Metal LA 10120 or an approved equal.

4. Street light pole heights shall conform to the applicable standard plan. Alternate pole heights shall require specific approval of the City Engineer.

5. Street light mast arm lengths shall conform to the applicable standard plan. Alternate mast arm lengths shall require specific approval of the City Engineer.

6. The concrete footing requirements shall conform to the requirements of Street Light Standard Plan 620A.

7. The base leveling requirements shall conform to the requirements of Street Light Standard Plan 621.

8. The wiring for the electrolizer shall conform to the requirements of Street Light Standard Plan 602.

9. Cut off lenses and devices shall require specific approval of the City Engineer.

B. Optional Decorative Street Light

1. On minor and cul-de-sac streets, installation shall be decorative luminaire, Street Light Standard Plan 615D, unless otherwise approved by the City Engineer.

2. The luminaire shall consist of aluminum housing, refractor, and an aluminum removable hood-reflector assembly. The lamp shall be an Induction or LED type as approved by the City and include the manufacturers required ballast.

3. The die-cast housing shall slip fit onto a 3” O.D. tenon.

4. The housing hood shall contain a prewired receptacle for a NEMA style photocell

5. Each luminaire shall have installed an individual photocell control.

6. The street light pole shall conform to the requirements of Street Light Standard Plan 615D.

7. Base and concrete footing details shall conform to the requirements of Street Light Standard Plan 620B. The base leveling requirements shall conform to requirements of Street Light Standard Plan 621.
8. The wiring for the electrolier shall conform to the requirements of Street Light Standard Plan 602. The 10 amp in-line fuse and holder shall be located in the pullbox adjacent to the street light pole.

C. Railroad Square Streetlights

1. Street lights installed within the current boundaries of the Railroad Square area of the City of Santa Rosa shall conform to the requirements of Street Light Standard Plan 614.

2. Additional street light locations other than those per the standard shall require the specific approval of the City Engineer.

3. The street light pole shall be painted with two parts #1093 verdant green and one part #1011 black of Dunne All Purpose Quick Dry Enamel or an equal approved by the City Engineer.

4. The top of street light pole shall contain a prewired receptacle for a NEMA style photocell.

5. Each luminaire shall have installed an individual photocell control.

6. Base and concrete footing details shall conform to the requirements of Street Light Standard Plan 620A. The base leveling requirements shall conform to Street Light Standard Plan 621.

D. Central Business District (CBD) Streetlights

1. At certain locations designated by the City Engineer, street lights installed within the current boundaries of the Central Business District shall conform to the requirements of Street Light Standard Plans 615A or 615B.

2. Additional street light locations other than those per the standard shall require the specific approval of the City Engineer.

3. Base and concrete footing details for approved CBD design alternatives (615A or 615B) shall conform to the requirements of Street Light Standard Plan 620A. The base leveling requirements for both design alternatives shall conform to Street Light Standard Plan 621.

4. Base and concrete footing details for the decorative street light in the Central Business District (CBD) are shown in Special Detail Plans 615C and 620C. This is not a standard for safety lighting, and it is to be used as a decorative street light only.

V. Wiring

A. Except as noted, all wiring methods and equipment construction shall conform to the National Electric Code (N.E.C.) and applicable sections of the California Standard Specifications.

B. All splices shall be made with solderless and waterproof connectors.
C. Unless authorized otherwise, all wiring shall be THW A.W.G. stranded, copper only. Unless otherwise specified on the Street Light Standard Plans, all wiring shall be of the following sizes:

1. All field wiring: #8 minimum (N.E.C.)
2. Pullbox to electrolier: #10 minimum (N.E.C.)
3. All wire in pole: #10 minimum (N.E.C.)

VI. Photocells

A. For street lights equipped with standard or programmable photoelectric control the photocell shall be a unit which plugs into an EEI-NEMA twist lock receptacle integral with the luminaire and shall conform to the provisions of the California Standard Specifications. The photoelectric controls shall be operable within a minimum voltage range between 105 and 280 volts. Programmable photocell timers shall have a built-in clock that synchronizes to the National Atomic signals and continuously monitors radio signals from the National Atomic Clock, be capable of user selectable turn-off and turn-back on times, time zone, and daylight savings time observance.

B. For street lights installed in the Central Business District using Street Light Standard Plan 615A (Design #1), the photocell control is located at an alternate location within the existing multiple street light system. For this installation, an individual photocell control is not required.

VII. Conduit

A. All conduits to be used shall be a minimum of 2 inch diameter, schedule 40 PVC, except from each street light to the adjacent pull box which shall be 1-1/2 inch diameter galvanized steel and shall have a 2-foot minimum cover from the top of conduit to the finished grade of the sidewalk, parkway, or roadway.

B. All steel conduit and other metal parts, including bonding bushing, shall be N.E.C. approved parts and shall be continuously bonded and grounded per N.E.C. requirements.

C. All bends and/or offsets shall be made with factory sections using approved couplers per N.E.C. requirements.

D. All empty conduits shall have a one-quarter inch polypropylene pull rope provided inside and sealed with a duct seal, approved by the City Engineer, on both ends of the conduit.

E. The ends of all conduits installed shall be sealed with a duct seal approved by the City Engineer. Conduits stubbed for future extension shall be capped.

VIII. Pullboxes

A. Unless otherwise approved by the City Engineer by variance, a No. 5 concrete pull box (California State Standard ES-8) shall be installed within five feet of the base of all street light poles.
B. All pull boxes shall be installed per Street Light Standard Plan 601.

C. Pull boxes shall not be more than 250 feet apart on long runs.

D. Pull boxes shall not be placed where they will be subject to vehicular traffic. Exceptions shall require specific approval of the City Engineer.

E. All pull box covers shall be inscribed with "Street Lighting" and be secured with 3/8 inch bolts, cap screws, or studs, and nuts which meet the provisions of the California Standard Specifications.
NO. 5 CONCRETE PULLBOX.

NOTES:

1. DESIGN SHALL CONFORM TO THESE REQUIREMENTS
   EXCEPT AS OTHERWISE APPROVED BY THE CITY
   ENGINEER BY VARIANCE.

2. PULLBOX COVERS SHALL BE BOLTED AND INSCRIBED
   "STREET LIGHTING".

CITY OF SANTA ROSA

PULL BOX INSTALLATION
NO. 5 PULL BOX

Scale: N.T.S.  Date: AUG. 1991

DESIGN SR  APPROVED  FILE NO.
CHK  STD. 601
NOTES:

1. DESIGN SHALL CONFORM TO THESE REQUIREMENTS EXCEPT AS OTHERWISE APPROVED BY THE CITY ENGINEER BY VARIANCE.

2. 600V 30A IN-LINE WATERPROOF FUSE HOLDER SHALL BE USED.

3. IF THE OPTIONAL DECORATIVE LUMINAIRE PER STD. 613 IS USED, THE IN-LINE FUSE SHALL BE LOCATED IN THE ADJACENT PULL BOX.
NOTES:

1. DESIGN SHALL CONFORM TO THESE REQUIREMENTS EXCEPT AS OTHERWISE APPROVED BY THE CITY ENGINEER BY VARIANCE.

2. CONTRACTOR TO INSTALL CONDUIT INTO UTILITY CO. VAULT WITH UTILITY CO. REPRESENTATIVE IN ATTENDANCE.

3. CONTRACTOR TO INSTALL #5 PULL BOX AND 2" SERVICE CONDUIT (WHEN NONEXISTENT) AND 2" CONDUIT AND CONDUCTORS FROM EQUIPMENT TO PULL BOX.

4. CONDUIT AND CONDUCTOR SPlice BOX ON SHORT SIDE, NO LONG SIDE OR BOTTOM ENTRY PERMITTED.
NOTES:

1. DESIGN SHALL CONFORM TO THESE REQUIREMENTS EXCEPT AS OTHERWISE APPROVED BY THE CITY ENGINEER BY VARIANCE.

2. CONTRACTOR TO INSTALL #5 PULL BOX AND 2" CONDUIT (WHEN NONEXISTENT) AND 2" CONDUIT AND CONDUCTORS FROM EQUIPMENT TO PULL BOX.

3. CONDUIT AND CONDUCTOR SPLICE BOX ON SHORT SIDE, NO LONG SIDE OR BOTTOM ENTRY PERMITTED.
TYPE 1
CENTER OF STREET

TYPE 2
SIDE OF STREET

TYPE 3
SIDE OF STREET

TYPE 4
SIDE OF STREET

CITY OF SANTA ROSA
TRAFFIC ENGINEERING
LATERAL LIGHT DISTRIBUTION

SCALE: NONE
DATE: AUG. 1991
DWN CHK
APPROVED
FILE NO.
STD- 604
NOTES:
1. DESIGN SHALL CONFORM TO THESE REQUIREMENTS EXCEPT AS OTHERWISE APPROVED BY THE CITY ENGINEER BY VARIANCE.
2. FOR BASE DETAIL, SEE STD. 620A.

(CCT) CORRELATED COLOR TEMPERATURE ≤ 4000K LED APPROVED EQUAL TO 150 WATT CLEAR HIGH PRESSURE SODIUM LUMINARE WITH MULTITAP DRIVER AND INDIVIDUAL PHOTO CELL CONTROL.

2-SOLID #12 THW COPPER CONDUCTORS, IN SUBDIVISIONS CONDUCTORS TO BE OF SUFFICIENT LENGTH TO EXTEND 24" OUT OF END OF MAST

2 OF STREET LIGHT STANDARD

INSPECTION PLATE

WITHIN SIDEWALK AREA: 1'-6"
WITHIN ISLAND MEDIAN: 2 OF MEDIAN

TOP OF SIDEWALK MEDIAN OR PLANTING STRIP

FACE OF CURB

TOP OF TRAVELED WAY

CITY OF SANTA ROSA
STREET LIGHTS MAJOR STREETS

SCALE: NONE DATE: MARCH, 2013
OWN SR APPROVED FILE NO.
CHK STD.- 610
NOTES:
1. DESIGN SHALL CONFORM TO THESE REQUIREMENTS EXCEPT AS OTHERWISE APPROVED BY THE CITY ENGINEER BY VARIANCE.
2. FOR BASE DETAIL, SEE STD. 620A.
(CCT) CORRELATED COLOR
TEMPERATURE ≤ 4000K LED
APPROVED EQUAL TO 70 WATT
CLEAR HIGH PRESSURE SODIUM
LUMINARE WITH MULTITAP DRIVER
AND INDIVIDUAL PHOTO CELL
CONTROL.

2-SOLID #12 THW COPPER
CONDUCTORS, IN SUBDIVISIONS
CONDUCTORS TO BE OF SUFFICIENT
LENGTH TO EXTEND 24" OUT OF END
OF MAST

♫ OF STREET LIGHT STANDARD

INSPECTION PLATE

WITHIN SIDEWALK AREA: 1'-6"
WITHIN ISLAND MEDIAN: ♪ OF MEDIAN

TOP OF SIDEWALK
MEDIAN OR PLANTING STRIP

FACE OF CURB

TOP OF TRAVELED WAY

NOTES:
1. DESIGN SHALL CONFORM TO THESE REQUIREMENTS
   EXCEPT AS OTHERWISE APPROVED BY THE CITY
   ENGINEER BY VARIANCE.
2. FOR BASE DETAIL, SEE STD. 620A.
PHOTO CELL CONTROL

HOLOPHANE RL-350 SERIES,
OR AMERICAN ELECTRIC
"KNIGHT SENTRY", OR
APPROVED EQUAL.

GALVANIZED STEEL

MANVILLE/UNIQUE SOLUTIONS SERIES SPRT,
OR AMERICAN ELECTRIC SERIES P, OR
APPROVED EQUAL.

1'-6"

FACE OF CURB

TOP OF TRAVELED WAY

INSECTION PLATE

TOP OF SIDE
WALK OR
PLANTER
STRIP

REFRACTOR ADJUSTMENT:
HOUSE SIDE | STREET SIDE

NOTES:
1. INSTALLATION OF OPTIONAL DECORATIVE STREET LIGHTS MUST HAVE SPECIFIC APPROVAL OF THE CITY ENGINEER BY VARIANCE.
2. DESIGN SHALL CONFORM TO THESE REQUIREMENTS EXCEPT AS OTHERWISE APPROVED BY THE CITY ENGINEER BY VARIANCE.
3. FOR BASE & FOOTING DETAIL, SEE STD. 620B.
1. Design shall conform to these requirements except as otherwise approved by the City Engineer by variance.

2. Ground surface at base must be level.

3. (4) 3/4" x 30" large anchor bolts (4" proj.) with (2) hex nuts shall be used on the 10" base coupling.

NOTES:

1. Design shall conform to these requirements except as otherwise approved by the City Engineer by variance.

2. Ground surface at base must be level.

3. (4) 3/4" x 30" large anchor bolts (4" proj.) with (2) hex nuts shall be used on the 10" base coupling.
ACORN STYLE WITH FINIAL, U.V. STABILIZED CLEAR PRISMATIC GLASS OR POLYCARBONATE REFRACTOR, ROTATABLE GLOBE, (CCT) CORRELATED COLOR TEMPERATURE ≤ 4000K LED or INDUCTANCE LUMINARE; APPROVED EQUAL TO 100 WATT CLEAR HIGH PRESSURE SODIUM LUMINARE WITH MULTITAP DRIVER AND INDIVIDUAL PHOTO CELL CONTROL, AND TYPE III DIST.

UNION METAL DESIGN N807
#20-16-64-P OR APPROVED EQUAL

11 GAUGE STEEL
16 FL. MONOTUBE
7.50" X 5.96" X 11'

SEE NOTES 2 & 3

NOTES:

1. DESIGN SHALL CONFORM TO THESE REQUIREMENTS EXCEPT AS OTHERWISE APPROVED BY THE CITY ENGINEER BY VARIANCE.

2. GROUND SURFACE AT BASE MUST BE LEVEL.

3. FOUR 1" ANCHOR BOLTS SHALL BE USED ON THE 12" BASE COUPLING.

CITY OF SANTA ROSA
STREET LIGHTS
CENTRAL BUSINESS DISTRICT
DESIGN #1

SCALE: NONE     DATE: MARCH, 2013
DATA: LC     FILE NO. STD.- 015A
GROUSE HINDS STYLE STREET LIGHT OR APPROVED EQUAL; (CCT) CORRELATED COLOR TEMPERATURE ≤4000K LED or INDUCTANCE LUMINARE; APPROVED EQUAL TO 400 WATT CLEAR METAL HALIDE LUMINARE, WITH MULTITAP DRIVER, INDIVIDUAL PHOTO CELL CONTROL.

AMERON # JS306 LIGHT POLE (DARK BRONZE, ANODIZED) OR APPROVED EQUAL

TOP OF SIDEWALK, MEDIAN OR PLANTING STRIP

FACE OF CURB

TOP OF TRAVELED WAY

NOTES:
1. DESIGN SHALL CONFORM TO THESE REQUIREMENTS EXCEPT AS OTHERWISE APPROVED BY THE CITY ENGINEER BY VARIANCE.
2. FOR BASE DETAIL, SEE STD. 620A
THIS IS NOT A DESIGN STANDARD

NOTES:
1. DESIGN SHALL CONFORM TO THESE REQUIREMENTS EXCEPT AS OTHERWISE APPROVED BY THE CITY ENGINEER BY VARIANCE.
2. FOR BASE DETAIL, SEE SPECIAL DRAWING #620C.
NOTES:
1. DESIGN SHALL CONFORM TO THESE REQUIREMENTS EXCEPT AS OTHERWISE APPROVED BY THE CITY ENGINEER BY VARIANCE.
2. FOR BASE AND FOOTING DETAILS, SEE CITY STANDARD 620A.
3. PULL BOX CONDUIT SHALL BE 2-INCH MINIMUM TO NEC STANDARDS AND LOCATED BEHIND THE CURB.

CITY OF SANTA ROSA
DECORATIVE STREETLIGHT

SCALE: N.T.S. DATE: MARCH, 2013

DWN. DDT APPROVED FILE NO.
CHK. AAC 615 D
R₁: ANCHOR BOLT DIA. DIMENSION R AND BOLT PATTERN TO SUIT POLE BASE FURNISHED.

8 #4 BARS VERTICAL
#3 HOOPS AT 12" O.C.

OPTIONAL SQUARE OR ROUND FOOTING

% OF POLE

1'-6"

BONDING BUSHING
FINISHED SIDEWALK, MEDIAN, OR PLANTING STRIP.

SEE NOTE 4

INSPECTION PLATE
FULL POLE FLANGE COVER

SEE NOTE 2
FACE OF CURB

5'-0"
3'-2" MIN

COUPLING

1⅛" RIGID STEEL CONDUIT (LONG RADIUS BEND) IN CONCRETE

NO. 4 BARE COPPER WIRE FOR GROUNDING 22" TO 25" REQD.
BOND TO LIGHT POLE GROUNDING LUG.

MIN. 12" DIA. SPIRAL COIL

4" SAND CUSHION

2'-0"

CONCRETE SHALL BE CLASS "A" P.C.C.
POUR AGAINST UNDISTURBED SOIL.

NOTES:

1. DESIGN SHALL CONFORM TO THESE REQUIREMENTS EXCEPT AS OTHERWISE APPROVED BY THE CITY ENGINEER BY VARIANCE.

2. IN AREAS WITHOUT CONCRETE AROUND FOOTING,
CONSTRUCT A 2' X 2' CONC. PAD (4" THICK). IF ROUND FOOTING IS Poured, POUR TO BOTTOM ELEVATION
OF THE SIDEWALK.

3. FOUNDATION BOLTS SHALL NOT BE CUT OFF FOR
ANY REASON. EXTENSION COUPLERS SHALL NOT BE
PERMITTED.

4. LEVELING OF BASE SHALL CONFORM TO THE
REQUIREMENTS OF STD. 621.
CONCRETE FOOTING

NOTES:

1. DESIGN SHALL CONFORM TO THESE REQUIREMENTS EXCEPT AS OTHERWISE APPROVED BY THE CITY ENGINEER BY VARIANCE.

2. IN AREAS WITHOUT CONCRETE AROUND FOOTING, CONSTRUCT A 2' X 2' CONC. PAD (4" THICK). IF ROUND FOOTING IS Poured, Pour TO BOTTOM ELEVATION OF THE SIDEWALK.

3. FOUNDATION BOLTS SHALL NOT BE CUT OFF FOR ANY REASON. EXTENSION COUPLERS SHALL NOT BE PERMITTED.

4. LEVELING OF BASE SHALL CONFORM TO THE REQUIREMENTS OF STD. 621.
NOTES:

1. DESIGN SHALL CONFORM TO THESE REQUIREMENTS EXCEPT AS OTHERWISE APPROVED BY THE CITY ENGINEER BY VARIANCE.

2. IN AREAS WITHOUT CONCRETE AROUND FOOTING, CONSTRUCT A 2' x 2' CONC. PAD (4" THICK). IF ROUND FOOTING IS Poured, POUR TO BOTTOM ELEVATION OF THE SIDEWALK.

3. FOUNDATION BOLTS SHALL NOT BE CUT OFF FOR ANY REASON. EXTENSION COUPLERS SHALL NOT BE PERMITTED.

4. LEVELING OF BASE SHALL CONFORM TO THE REQUIREMENTS OF STD. 621.
NOTES:

1. DESIGN SHALL CONFORM TO THESE REQUIREMENTS EXCEPT AS OTHERWISE APPROVED BY THE CITY ENGINEER BY VARIANCE.

2. FOUNDATION BOLTS SHALL NOT BE CUT OFF FOR ANY REASON. EXTENSION COUPLERS SHALL NOT BE PERMITTED.
NOTES:
1. IF JOINT TRENCH IS USED, THE TRENCH LAYOUT SHALL CONFORM TO THE ABOVE CONFIGURATION, UNLESS OTHERWISE SPECIFICALLY APPROVED BY THE CITY ENGINEER.

2. A RUN OF CONDUIT SHALL NOT CONTAIN MORE THAN THE EQUIVALENT OF FOUR - 1/4 BENDS (360° TOTAL) INCLUDING OFFSETS AND BENDS LOCATED AT PULL BOXES AND SERVICE POINTS (NATIONAL ELECTRIC CODE 347-14).

3. PULL BOXES ARE REQUIRED ON BOTH SIDES OF EACH STREET CROSSING.

4. IF JOINT TRENCH IS USED, COSTS SHALL BE BORNE BY DEVELOPER. JOINT TRENCH DESIGN SHALL BE THE RESPONSIBILITY OF THE DEVELOPER.

5. NO MORE THAN ONE STREET LIGHT CONDUIT IN ANY PG&E SERVICE POINT.

6. PRIOR TO ANY STREET LIGHT CONDUIT CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE 3 COPIES OF THE JOINT TRENCH OR STREET LIGHT CONDUIT PLAN TO THE INSPECTOR AND MEET THE INSPECTOR ON-SITE TO REVIEW STREET LIGHT CONDUIT PLANS & IDENTIFY ALL PULL BOX LOCATIONS & CONDUIT STREET CROSSINGS.

7. REFERENCE THE JOINT TRENCH COMPOSITE OR STREET LIGHT CONDUIT PLANS FOR CONDUIT LOCATION AND CONDUCTOR SCHEDULE.

CITY OF SANTA ROSA
JOINT TRENCH LAYOUT FOR STREET LIGHT CONDUIT

Scale: NONE

Date: February 1999

File No.: 625