

WORK RESPONSIBILITY STREET LIGHTING SYSTEM

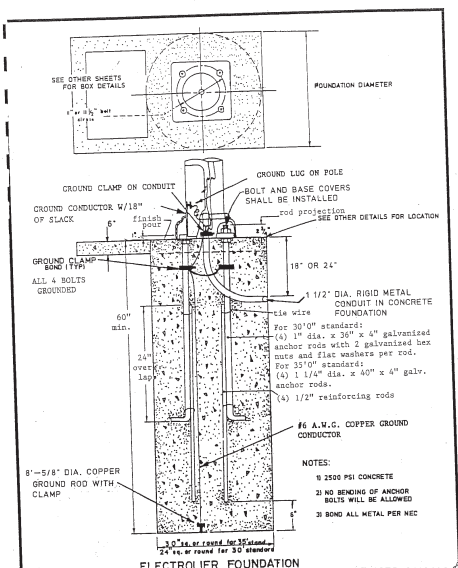
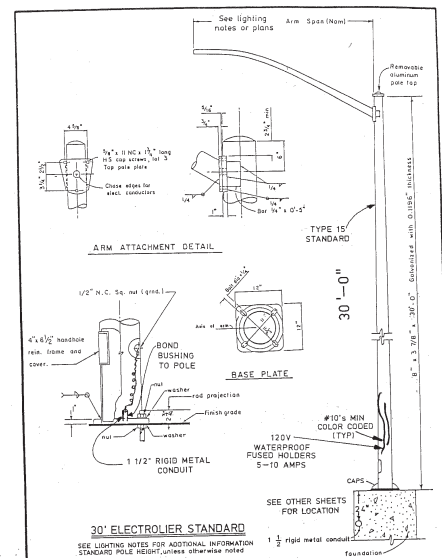
- WIRE:**
- SUPPLY - INSTALL
- CONDUIT
- SUPPLY - INSTALL
- BASES:
- SUPPLY - INSTALL
- LUMINAIRES:
- SUPPLY - INSTALL
- SPLICE BOX:
- SUPPLY - INSTALL

- PG & E RATE SCHEDULE
- INSTALL IN JOINT TRENCH
- INSTALL IN SEPARATE TRENCH

THESE PLANS WERE PREPARED IN CONJUNCTION WITH THE FOLLOWING PLANS:

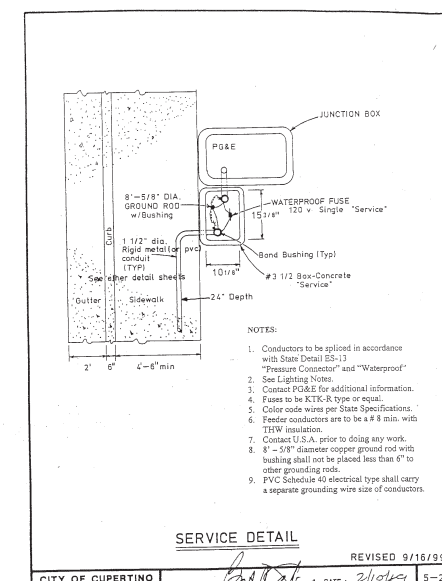
	DATE RECEIVED	DATE APPROVED
CIVIL IMPROVEMENT PLANS/GRADING PLANS	3-8-2016	PRELIM.
LANDSCAPE ARCHITECTURAL PLANS	3-8-2016	PRELIM.
SERVICE POINTS		
STREET LIGHT LOCATIONS BY:		

RGA Design is not responsible for any subsequent changes or revisions.



CITY OF CUPERTINO STANDARD DETAILS APPROVED BY: [Signature] DATE: 2/10/09 5-10

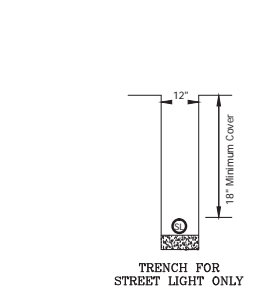
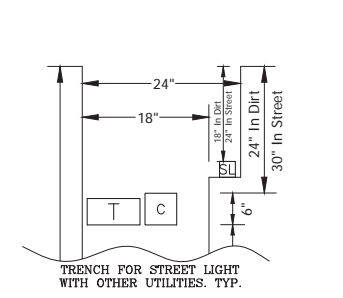
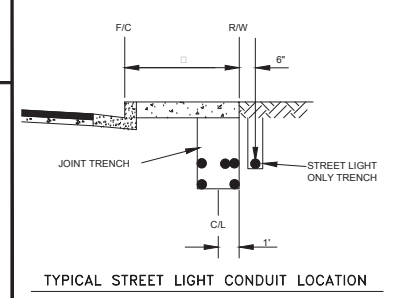
CITY OF CUPERTINO STANDARD DETAILS APPROVED BY: [Signature] DATE: 9/16/99 5-12



CITY OF CUPERTINO STANDARD DETAILS APPROVED BY: [Signature] DATE: 2/10/09 5-20

- LIGHTING NOTES:**
- Luminaires, junction boxes, 1/2" rigid metal conduit, 1/2" PVC conduit, and poles shall comply with Section 86 of the California Standard Specifications and City Standard Details unless otherwise noted.
 - Luminaires may be cut off, Type M-II or M-III I.E.S. light distribution, unless otherwise noted. At cut-de-sacs M-II or better is required unless otherwise noted. See the plans.
 - The electrolier arm length shall be twelve feet (12') for forty foot (40') street widths with sidewalks, eight feet (8') without sidewalks, and shall be fifteen feet (15') at cut-de-sacs. See plans for other applications.
 - The service supplying any electrolier circuit shall be fused and grounded in accordance with National Electrical Code at the first junction box. An additional fuse is required at each electrolier on any ungrounded conductor. Conductors shall be #8 THW unless otherwise noted and all services should be 120V. Photo electric unit control is to be at the luminaire unless otherwise noted.
 - The electrical contractor shall obtain a service point confirmation and a clearance from Public Works Department prior to installing any foundations, poles, conduits and conductors. Also, U.S.A. shall be used to verify locations of other utilities.
 - Prior to placing any work other than curb and gutter, the developer shall supply the Public Works Department with a Pacific Gas and Electric Company electrical power design with electrical service points and pole numbers.
 - A Public Works Department connection order is required to energize any electrolier. Provided by City of Cupertino after completion and inspection for PG&E.
 - Contact Pacific Gas & Electric Company for additional requirements and contact Public Works Department for inspections of foundations forty eight (48) hours prior to foundation pouring, and electrical inspections.
 - The electrical contractor shall supply to the City for approval, manufacturer's submittals on all luminaires. High Pressure Sodium is the City Standard.
 - Street lights are to be installed, inspected and turned on as soon as possible.
 - All conductors shall be sized in accordance with the National Electrical Code.
 - All overload protection (fuses) shall be sized in accordance with the National Electrical Code.
 - Whenever a new installation is near any overhead wire, a clearance must be obtained from PG&E prior to foundation installation.

CITY OF CUPERTINO STANDARD DETAILS APPROVED BY: [Signature] DATE: 2-15-00 5-22



PUBLIC SITE ELECTRICAL SPECIFICATIONS

These electrical specifications are to be used in conjunction with the National Electrical Code (N.E.C.) and local requirements.

MATERIALS

The electrical materials shall be all materials used or wiring, including conduit or cables, as well as the electrical fittings.

All materials shall be sealed with "UL" listing or equivalent as applicable.

Construction materials shall be installed and installed in accordance with the City of Cupertino specifications. Concretes used for foundations and enclosures shall be 2,500-PSI concrete. Unless otherwise noted, the State of California Certified Structural Engineer or Registered Civil Engineer. Drain pipes shall be used to set all in-ground, full pipes and junction boxes and shall be installed to 2 inches above the drain.

Unless otherwise specified, all materials and designs shall be as shown. No substitutions shall be allowed without prior approval.

PRE-JOBS AND INSPECTIONS

Prior to construction, a pre-construction meeting shall be held with the developer's representative and held on site. This pre-construction meeting shall include the superintendent or developer's representative, the contractor or contractor's representative, the responsible or installation of all utilities or the City Engineer (including the interior utility listing), the City Electrical Inspector and the Land Use Architect.

CONDUIT

Underground conduits shall be PVC Schedule 40, unless otherwise noted. Electrical conduits shall remain outside the paved areas, except for the necessary enclosures. Conduits shall not be allowed in an un-structural section of a road, tunnel, gutter, sidewalk or other surface structure, as it is in steel or concrete. Conduits shall be installed in a trench or a trench in the structural interior of the structure. Conduits entering foundations and enclosures shall be rigid advanced steel. Install round conduits in the structure.

Electrical conduit trench shall be installed on the electrical materials for as a minimum, the conduit run or materials used and the conduit. The installer shall be responsible for the installation to ensure it meets the engineering plans and specifications.

LOCATION

The Land Use Architect in the field shall establish the final locations.

The contractor shall include the in-situ or in-situ in the field.

FOUNDATIONS

All direct burial electrical conduits shall be installed as per the N.E.C. listing requirements and the manufacturer's design. Installation detail or foundations shall be in the structure as shown. Use of other materials shall be approved by the City Engineer.

SERVICE BOXES

All in-ground junction boxes shall be easily accessible for maintenance purposes. Box size and size shall be as per the City of Cupertino. All boxes shall be set on a 12 inch x 12 inch base on a drain pipe. Drain pipes shall be 1 inch in diameter to 2 inches in diameter in dimension. At the bottom of the box, there shall be one inch in diameter hole on the floor, with a drain pipe one inch in diameter to 2 inches in diameter in size in diameter in diameter. The drain pipe shall be made of steel or other material. It shall be set to the grade and included within the concrete pad or at the top. The trench shall not be allowed in the wall or vertical areas. There is no sidewalk, the boxes shall be set to the grade and included within the concrete pad and at the top. It shall be set to the grade and included within the concrete pad and at the top. Provide grass, old down lots.

WIRING AND SPLICING

All electrical wires shall be of THW or THHN 600 volt rated. Sizes shall be water resistant Cal-Trans Section 88. A code size ground shall be installed in all circuits. All electrical wires shall be bonded. Multiple circuits in the same conduit shall be listed as wired, bonded or equivalent to all.

PERMIT

The contractor shall be responsible for obtaining the electrical permit.

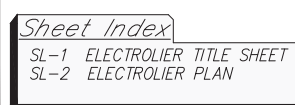
P.G. & E. FEES

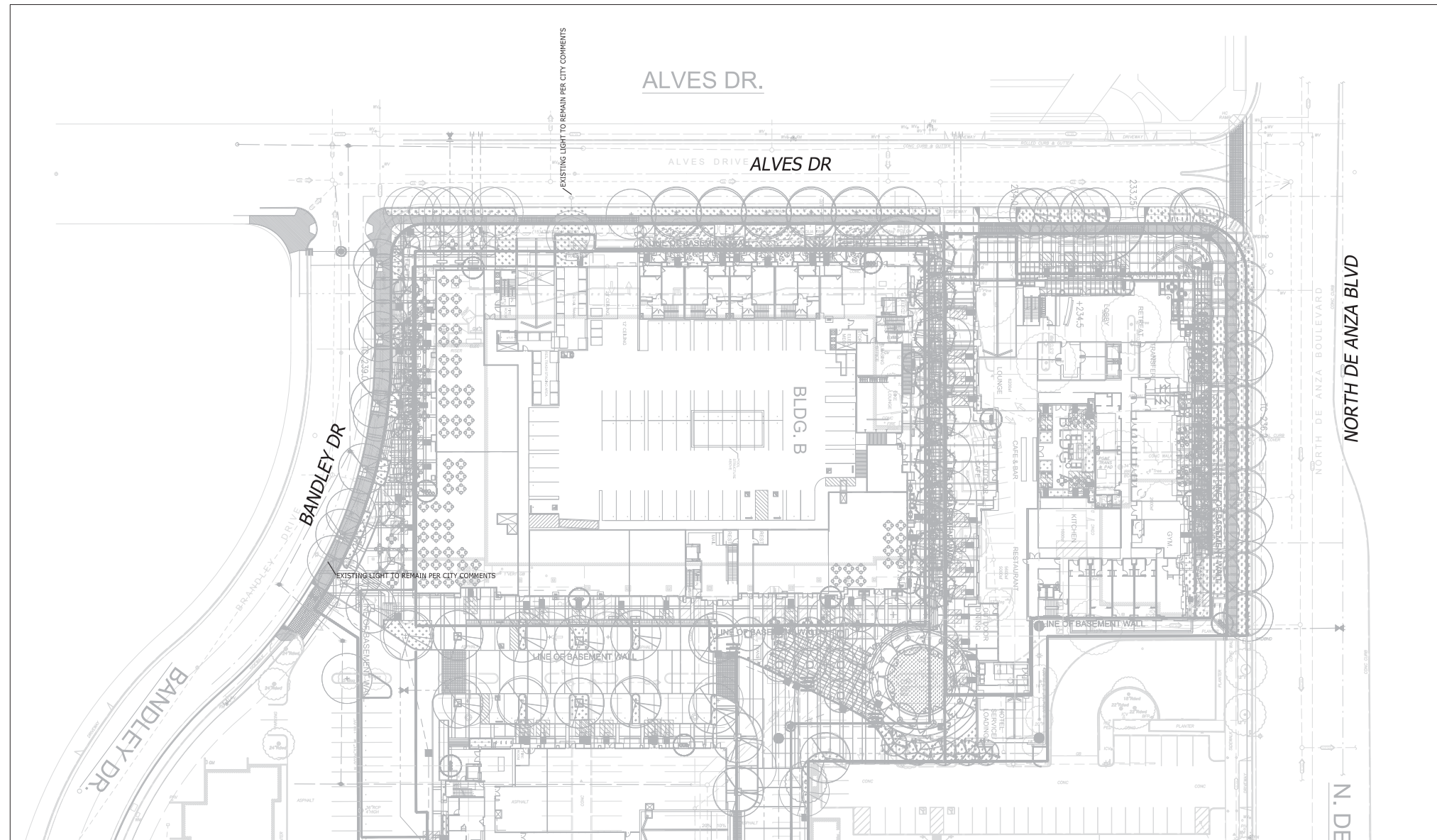
The developer will be the P.G. & E. connection fees. Contractors shall coordinate service connection fees.

BURN TEST



Contractor to perform a (5) day burn test prior to installation.

All materials and workmanship shall be guaranteed for one year.





LEGEND:

-  STREET LIGHT (SL)
-  SPLICE BOX 3-1/2 PULL BOX
10" x 17" x 12" N9

Sheet Index

- SL-1 ELECTROLIER TITLE SHEET
- SL-2 ELECTROLIER PLAN

MARINA PLAZA

10145 DE ANZA BLVD. AND 10122 BANDLEY DR. CUPERTINO, CALIFORNIA
De Anza Venture, LLC

JOB NO. 1250.001
DATE 04-21-16

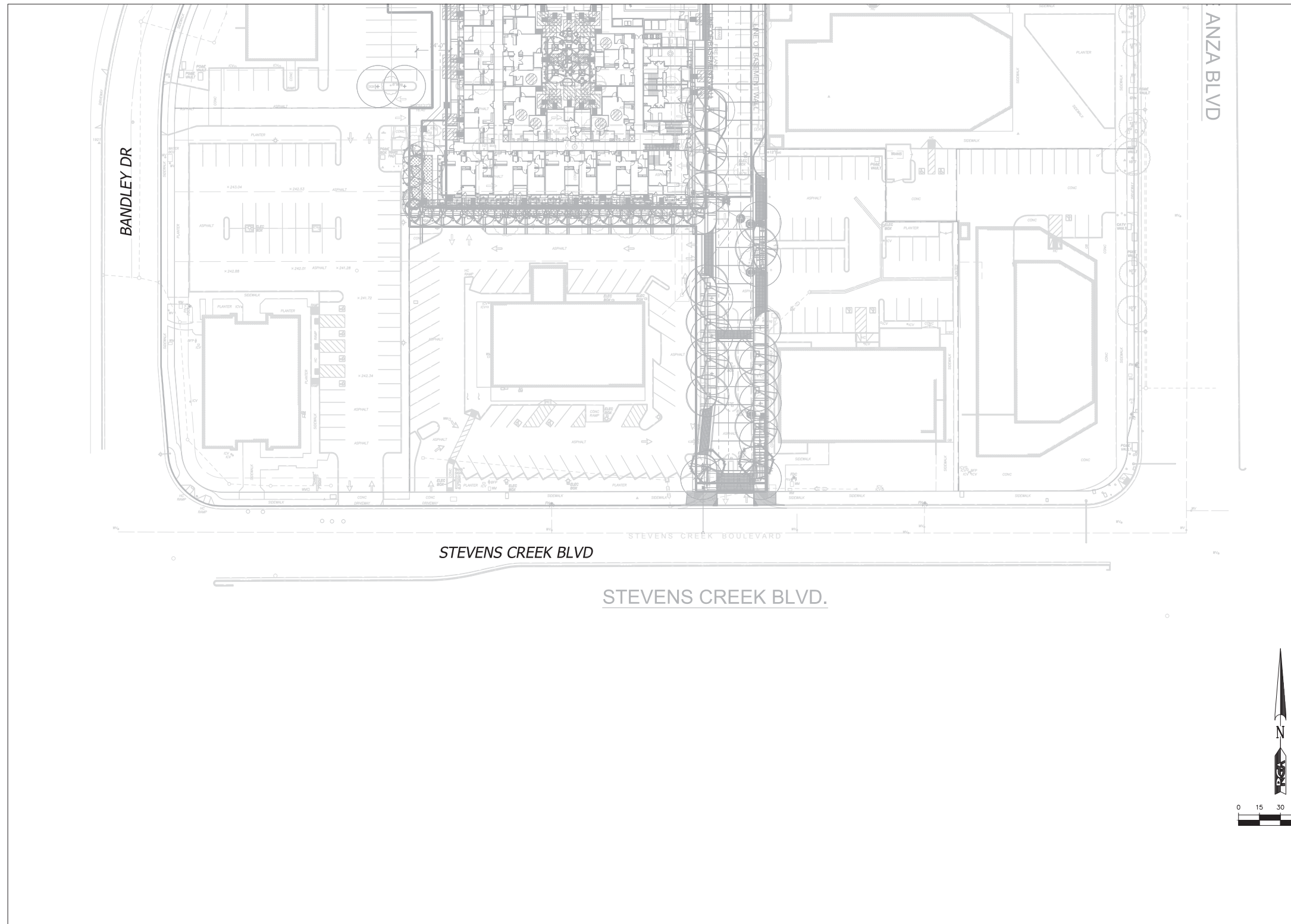


5865 Owens Drive
Pleasanton, CA 94588
925-251-7200



SL-2

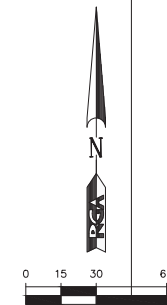
SEE SHEET SL-2

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LEGEND:

-  STREET LIGHT (SL)
-  SPLICE BOX 3-1/2 PULL BOX
10" x 17" x 12" N9



MARINA PLAZA

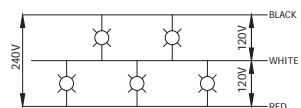
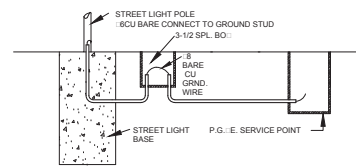
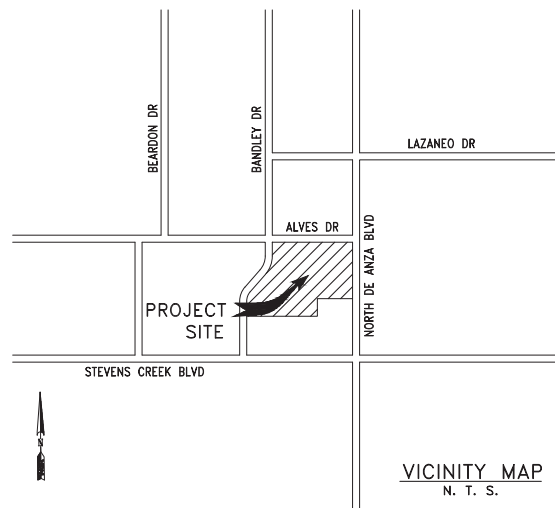
10145 DE ANZA BLVD. AND 10122 BANDLEY DR. CUPERTINO, CALIFORNIA
De Anza Venture, LLC

JOB NO. 1250.001
DATE 04-21-16



5865 Owens Drive
Pleasanton, CA 94588
925-251-7200

SL-3



WORK RESPONSIBILITY STREET LIGHTING SYSTEM

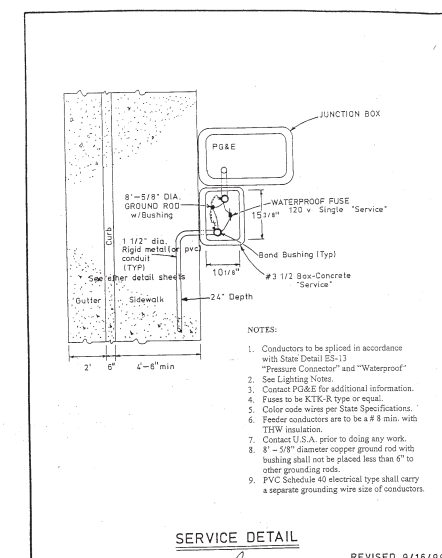
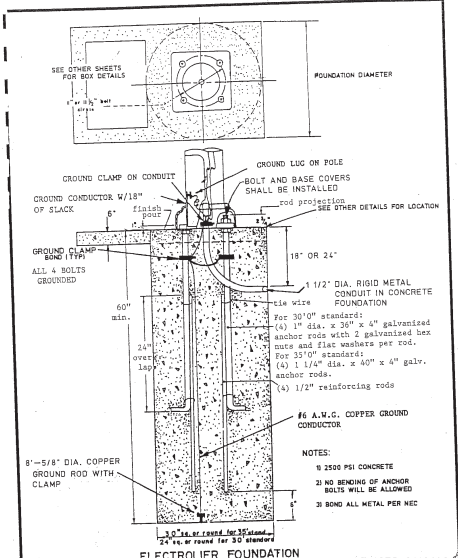
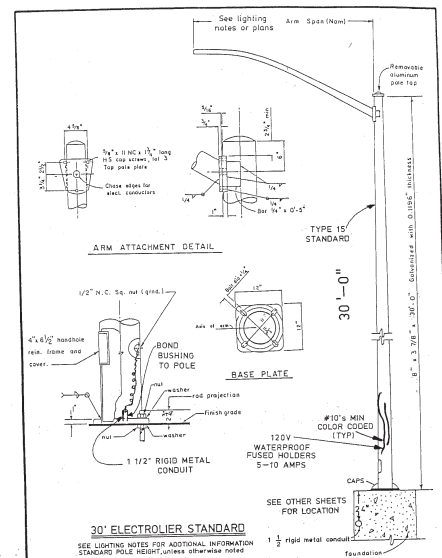
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- CONDUIT
- SUPPLY - INSTALL
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- SUPPLY - INSTALL
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- SUPPLY - INSTALL
-

PG & E RATE SCHEDULE:
 INSTALL IN JOINT TRENCH:
 INSTALL IN SEPARATE TRENCH:

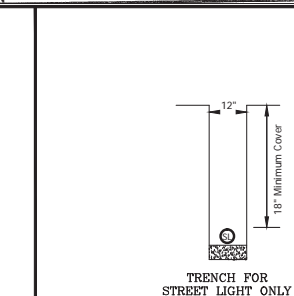
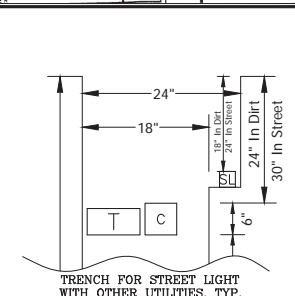
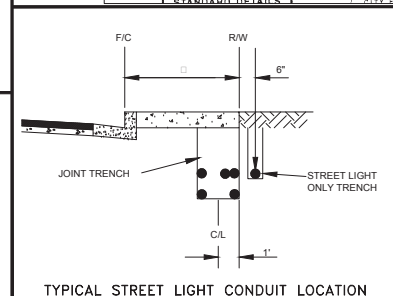
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	DATE RECEIVED	DATE APPROVED
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LANDSCAPE ARCHITECTURAL PLANS	3-8-2016	PRELIM.
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STREET LIGHT LOCATIONS BY:		

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- LIGHTING NOTES:**
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 - Luminaires may be cut off, Type M-II or M-III I.E.S. light distribution, unless otherwise noted. At cut-de-sacs M-II or better is required unless otherwise noted. See the plans.
 - The electroluer arm length shall be twelve feet (12') for forty foot (40') street widths with sidewalks, eight feet (8') without sidewalks, and shall be fifteen feet (15') at cut-de-sacs. See plans for other applications.
 - The service supplying any electroluer circuit shall be fused and grounded in accordance with National Electrical Code at the first junction box. An additional fuse is required at each electroluer on any ungrounded conductor. Conductors shall be #8 THW unless otherwise noted and all services should be 120V. Photo electric unit control is to be at the luminaire unless otherwise noted.
 - The electrical contractor shall obtain a service point confirmation and a clearance from Public Works Department prior to installing any foundations, poles, conduits and conductors. Also, U.S.A. shall be used to verify locations of other utilities.
 - Prior to placing any work other than curb and gutter, the developer shall supply the Public Works Department with a Pacific Gas and Electric Company electrical power design with electrical service points and pole numbers.
 - A Public Works Department connection order is required to energize any electroluer. Provided by City of Cupertino after completion and inspection for PG&E.
 - Contact Pacific Gas & Electric Company for additional requirements and contact Public Works Department for inspections of foundations forty eight (48) hours prior to foundation pouring, and electrical inspections.
 - The electrical contractor shall supply to the City for approval, manufacturer's submittals on all luminaires. High Pressure Sodium is the City Standard.
 - Street lights are to be installed, inspected and turned on as soon as possible.
 - All conductors shall be sized in accordance with the National Electrical Code.
 - All overload protection (fuses) shall be sized in accordance with the National Electrical Code.
 - Whenever a new installation is near any overhead wire, a clearance must be obtained from PG&E prior to foundation installation.



PUBLIC SITE ELECTRICAL SPECIFICATIONS

These electrical specifications are to be used in conjunction with the National Electrical Code (N.E.C.) and local requirements.

MATERIALS
The electrical materials shall be all materials used or wiring, including conduit or cables, as well as electrical fittings.

All materials shall be sealed with "ULL" listing or equivalent sealant.
Construction materials shall be tested and installed in accordance with the City's Insulators. Concrete used for foundations and enclosures shall be 2,500-PSI. Unless otherwise noted, all materials shall be tested and installed in accordance with the Registered Civil Engineer. Drain rods shall be used to set all in-ground utility lines and junction boxes and shall be 1 inch diameter to 2 inch diameter drain rods.

Utilities shall be tested and designed as shown. No substitutions shall be allowed without prior approval.

PRE-JOBS AND INSPECTIONS
Prior to construction, a pre-construction meeting shall be held with the developer's representative and held on site. This pre-construction meeting shall include the superintendent or developer's representative, the contractor or contractor's representative, the registered civil engineer, the City's Electrical Inspector and the Land's Area Architect.

CONDUIT
Underground conduits shall be P.V.C. schedule 40, unless otherwise noted. Electrical conduits shall remain outside of paved areas, except for necessary crossings. Conduits shall not be allowed in an unsheltered section of a road, tunnel, under, sidewalk, or other surface structure, as it is in direct contact with the ground. Conduits shall be installed in accordance with the City's Electrical Inspector. Conduits shall be installed in accordance with the City's Electrical Inspector. Conduits shall be installed in accordance with the City's Electrical Inspector. Conduits shall be installed in accordance with the City's Electrical Inspector.

Electrical conduit trench shall be installed on a firm, level surface. The trench shall be installed in accordance with the City's Electrical Inspector. The trench shall be installed in accordance with the City's Electrical Inspector. The trench shall be installed in accordance with the City's Electrical Inspector.

LOCATION
The Land's Area Architect shall establish final locations for all utilities.

The contractor shall install the utilities in accordance with the City's Electrical Inspector. The contractor shall install the utilities in accordance with the City's Electrical Inspector. The contractor shall install the utilities in accordance with the City's Electrical Inspector.

FOUNDATIONS
All direct burial utilities shall be installed in accordance with the City's Electrical Inspector. The contractor shall install the utilities in accordance with the City's Electrical Inspector. The contractor shall install the utilities in accordance with the City's Electrical Inspector.

SERVICE BOXES
All in-ground utility boxes shall be easily accessible for maintenance purposes. Boxes shall be installed in accordance with the City's Electrical Inspector. Boxes shall be installed in accordance with the City's Electrical Inspector. Boxes shall be installed in accordance with the City's Electrical Inspector.

Wire and splicing shall be in accordance with the City's Electrical Inspector. Wire and splicing shall be in accordance with the City's Electrical Inspector. Wire and splicing shall be in accordance with the City's Electrical Inspector. Wire and splicing shall be in accordance with the City's Electrical Inspector.

PERMIT
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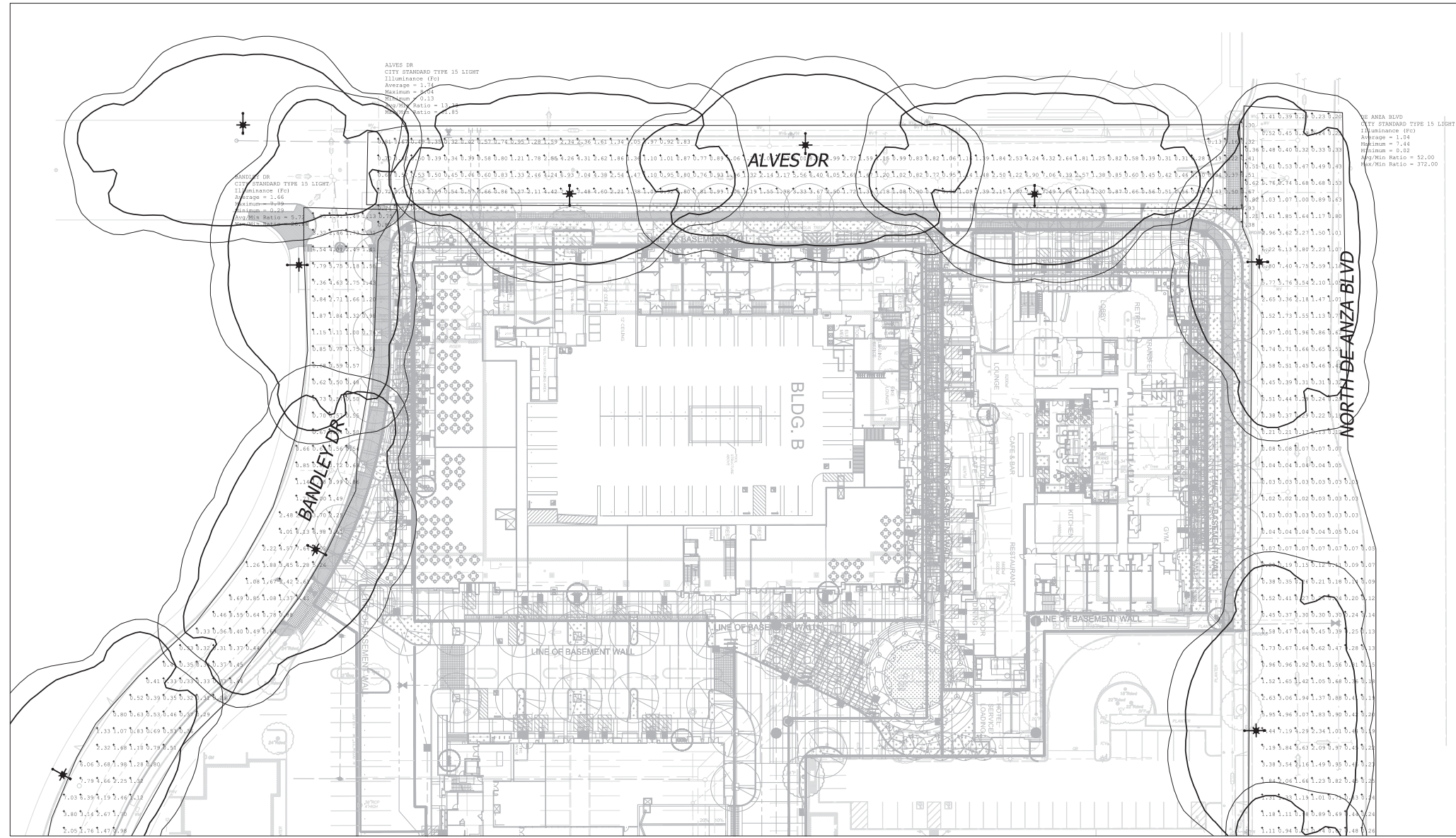
P.G.&E. FEES
The developer will be the P.G.&E. connection fees. Contractors shall coordinate service connection fees.

BURN TEST
Contractor to perform a (5) day burn test prior to installation.

All materials and workmanship shall be guaranteed for one year.

Sheet Index

PM-1	PHOTOMETRIC TITLE SHEET
PM-2	PHOTOMETRIC PLAN
PM-3	PHOTOMETRIC PLAN



SEE SHEET PM-2

SEE SHEET PM-2

Luminaire Schedule LED		
Project: MARINA PLAZA		
Symbol	Arrangement	Description
	MARINA PLAZA	CITY STANDARD ELECTROLIER

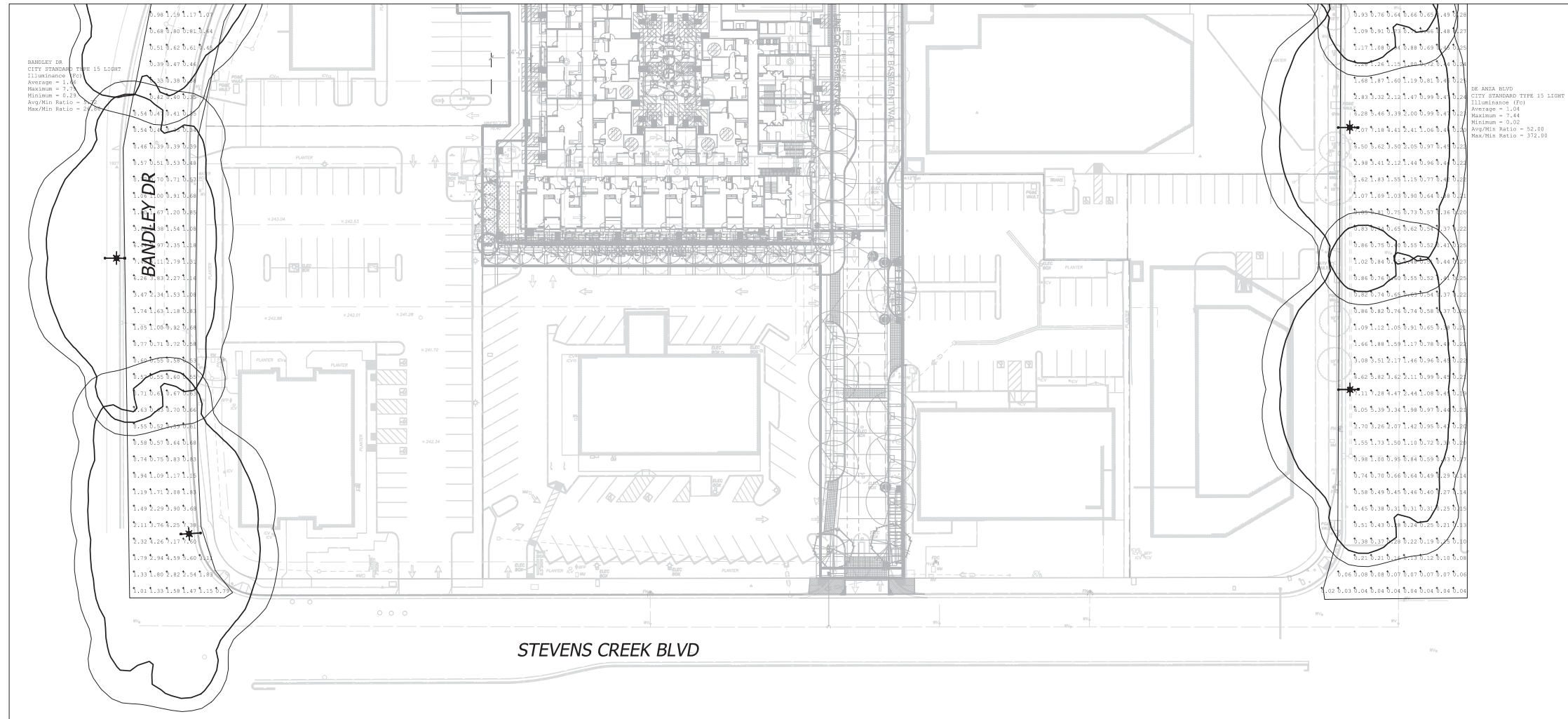
Calculation Summary							
Project: MARINA PLAZA - CUPERTINO, CA							
Description	Calc. Time	Units	Avg	Max	Min	Avg/Min	Max/Min
ALVES DRIVE	Illuminance	Ft ²	1.73	8.04	0.13	13.31	61.85
BANDLEY DRIVE	Illuminance	Ft ²	1.66	8.02	0.22	7.55	36.45
NORTH DE ANZA BLVD	Illuminance	Ft ²	1.04	7.44	0.02	52.00	372.00

Sheet Index

- PM-1 PHOTOMETRIC TITLE SHEET
- PM-2 PHOTOMETRIC PLAN
- PM-3 PHOTOMETRIC PLAN

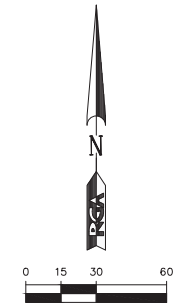
SEE SHEET PM-2

SEE SHEET PM-2



Luminaire Schedule LED		
Project: MARINA PLAZA		
Symbol	Arrangement	Description
	MARINA PLAZA	CITY STANDARD ELECTROLIER

Calculation Summary							
Project: MARINA PLAZA - CUPERTINO, CA							
Description	Calculation	Units	Avg	Max	Min	Avg/Min	Max/Min
ALVES DRIVE	Illuminance	Ft ²	1.73	8.04	0.13	13.31	61.85
BANDLEY DRIVE	Illuminance	Ft ²	1.66	8.02	0.22	7.55	36.45
NORTH DE ANZA BLVD	Illuminance	Ft ²	1.04	7.44	0.02	52.00	372.00



Sheet Index	
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PM-2	PHOTOMETRIC PLAN
PM-3	PHOTOMETRIC PLAN

MARINA PLAZA

10145 DE ANZA BLVD. AND 10122 BANDLEY DR. CUPERTINO, CALIFORNIA
De Anza Venture, LLC

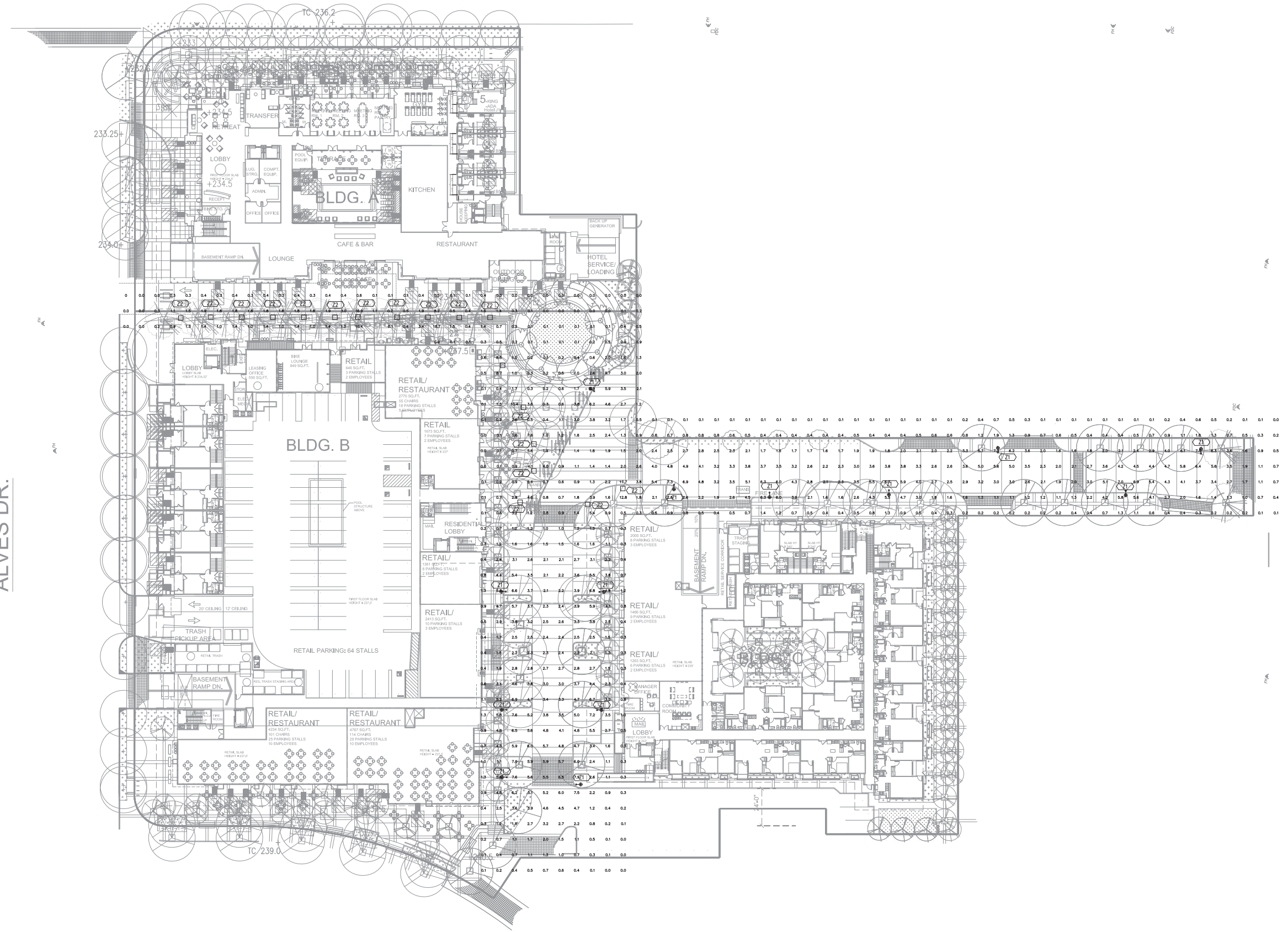
JOB NO. 1250.001
DATE 04-21-16



5865 Owens Drive
Pleasanton, CA 94588
925-251-7200

PM-3

ALVES DR.



MARINA PLAZA

10145 DE ANZA BLVD. AND 10122 BANDLEY DR. CUPERTINO, CALIFORNIA
 De Anza Venture, LLC
COPYRIGHT 2016, EMERALD CITY ENGINEERS, INC.
 ARCHITECT: 13700-008 MARINA PLAZA CORP/STG, CA 95051-1200 03-10-2016 08:53

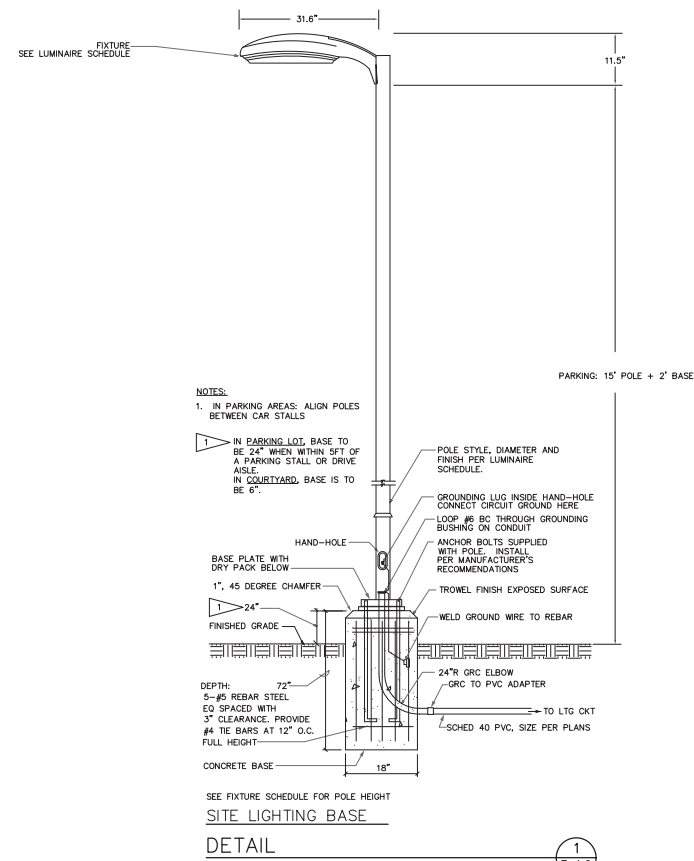


SITE LIGHTING PHOTOMETRIC PLAN

1" = 25'

JOB NO. 1250.001
 DATE 04-21-16

Z1 LIGHT FIXTURES



SEE FIXTURE SCHEDULE FOR POLE HEIGHT
SITE LIGHTING BASE
DETAIL

1
E-1.0

Z2 LIGHT FIXTURE

LUMINAIRE SCHEDULE									
CALLOUT	SYMBOL	DESCRIPTION	LAMP	BALLAST	MOUNTING	MODEL	INPUT WATTS	VOLTS	NOTES
Z1	☉	18" POLE LIGHT, FULL CUTOFF, LED	(1) 105W LED	ELECTRONIC	POLE	PHILIPS GARDCO, GL18-3-105LA-4870-	106.3	120V 1P 2W	PARKING LOT
Z2	□	ALUMINUM PROFILE LUMINAIRE	(1) 42W LED	ELECTRONIC	POLE	BEGA 7784	42	120V 1P 2W	PROMENADE
Z3	.	CATENARY LIGHTING	(1) 1.8W LED	ELECTRONIC	CEILING	TOKISTAR VI-EX_2400K_S14-C	1.8	120V 1P 2W	ABOVE PROMENADE

MARINA PLAZA

10145 DE ANZA BLVD. AND 10122 BANDLEY DR. CUPERTINO, CALIFORNIA
De Anza Venture, LLC

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PROJECT: 13200-006 MARINA PLAZA, CUPERTINO, CA (945) 6-1296 03-10-2016 08:53

1" = 25'
JOB NO. 1250.001
DATE 04-21-16

LUMINAIRE SCHEDULE