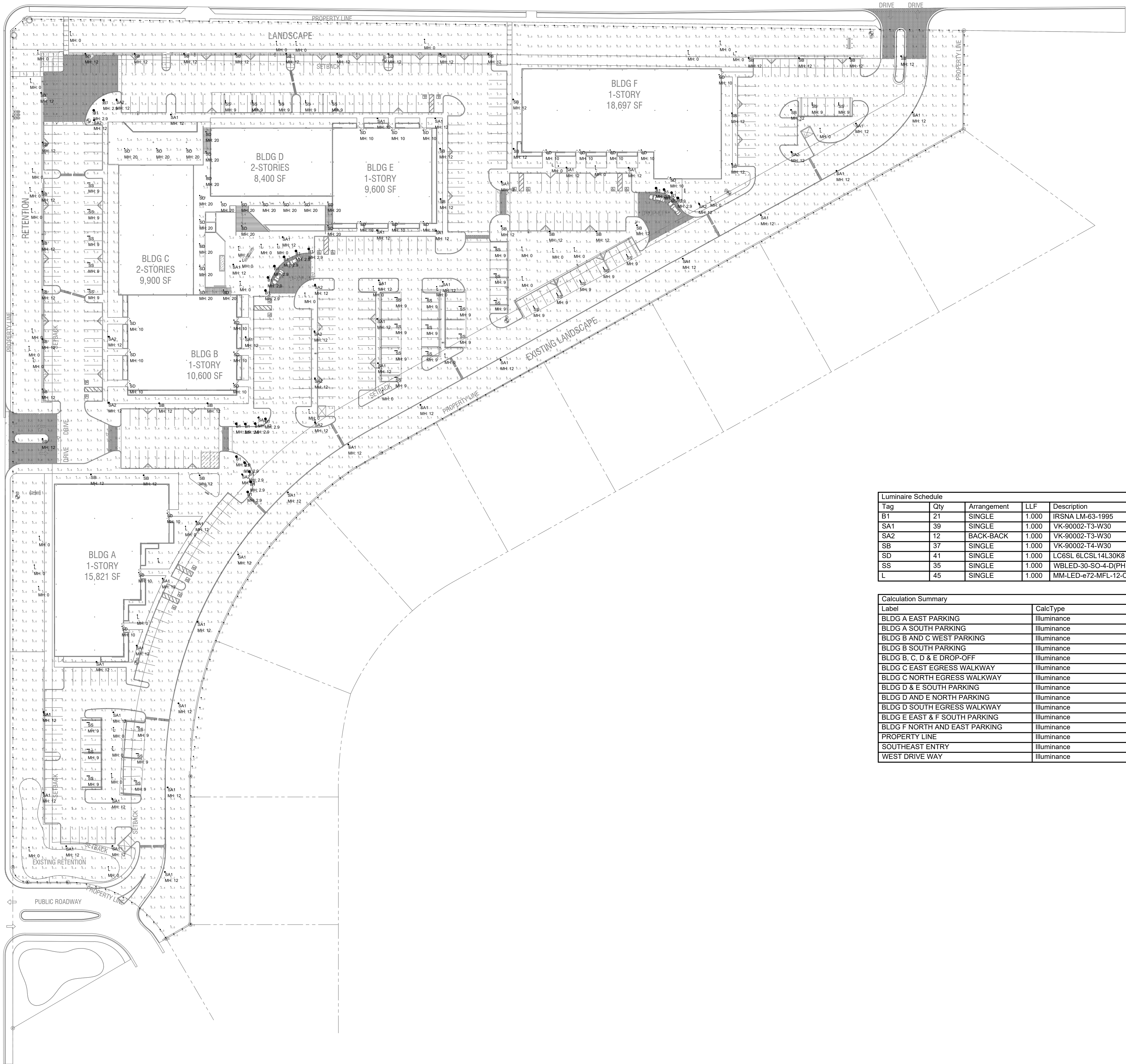


TATUM BOULEVARD

SHEA BOULEVARD



NOTE:  
IF POLES LIGHT FIXTURE HEIGHTS LESS THAN 12' ARE USED WE  
CREATE HOT SPOTS THAT EXCEED THE PARADISE VALLEY  
MAXIMUM OF 1.6 AVERAGE FOOT CANDLE REQUIREMENT FOR  
PARKING LOTS. (REFER TO SECTION 2 OF THE PARADISE  
VALLEY ZONING ORDINANCE, SPECIAL USE PERMIT  
GUIDELINES).  
THE ILLUMINATION ENGINEERING SOCIETY (IES) OF AMERICA  
HAS A 0.3 FOOT CANDLE MINIMUM LEVEL FOR SECURITY AND 0.5  
FOOT CANDLES MINIMUM FOR ADVANCED LEVELS OF SECURITY.  
(REFER TO APPLICATIONS SECTION 26 OF THE IES LIGHTING  
HANDBOOK). THE CURRENT DESIGN FOR THIS PROJECT IS TO  
HAVE 0.3 FOOT CANDLE MINIMUM STANDARD.

| Luminaire Schedule |     |             |       |                         |                                      |                         |
|--------------------|-----|-------------|-------|-------------------------|--------------------------------------|-------------------------|
| Tag                | Qty | Arrangement | LLF   | Description             | Mounting Height Above Finished Grade | Lum. Lumens Color Temp. |
| B1                 | 21  | SINGLE      | 1.000 | IRSNA LM-63-1995        | 2'-11"                               | 728 3000 k              |
| SA1                | 39  | SINGLE      | 1.000 | VK-90002-T3-W30         | 12'                                  | 4150 3000 k             |
| SA2                | 12  | BACK-BACK   | 1.000 | VK-90002-T3-W30         | 12'                                  | 4150 3000 k             |
| SB                 | 37  | SINGLE      | 1.000 | VK-90002-T4-W30         | 12'                                  | 4221 3000 k             |
| SD                 | 41  | SINGLE      | 1.000 | LC6SL 6LCSL14L30K8      | SEE PLANS                            | 1490 3000 k             |
| SS                 | 35  | SINGLE      | 1.000 | WBLED-30-SO-4-D(PHIL54) | 9'                                   | 1984 3000 k             |
| L                  | 45  | SINGLE      | 1.000 | MM-LED-672-MFL-12-C     | 0' - GROUND MOUNTED                  | 176 3000 k              |

| Calculation Summary           |             |       |      |      |     |
|-------------------------------|-------------|-------|------|------|-----|
| Label                         | CalcType    | Units | Avg  | Max  | Min |
| BLDG A EAST PARKING           | Illuminance | Fc    | 1.27 | 9.4  | 0.0 |
| BLDG A SOUTH PARKING          | Illuminance | Fc    | 1.07 | 8.8  | 0.0 |
| BLDG B AND C WEST PARKING     | Illuminance | Fc    | 1.59 | 9.2  | 0.1 |
| BLDG B SOUTH PARKING          | Illuminance | Fc    | 1.58 | 8.1  | 0.1 |
| BLDG B, C, D & E DROP-OFF     | Illuminance | Fc    | 2.20 | 11.7 | 0.4 |
| BLDG C EAST EGRESS WALKWAY    | Illuminance | Fc    | 4.80 | 10.3 | 1.0 |
| BLDG C NORTH EGRESS WALKWAY   | Illuminance | Fc    | 1.83 | 3.7  | 0.7 |
| BLDG D & E SOUTH PARKING      | Illuminance | Fc    | 1.59 | 11.2 | 0.0 |
| BLDG D AND E NORTH PARKING    | Illuminance | Fc    | 1.57 | 12.9 | 0.0 |
| BLDG D SOUTH EGRESS WALKWAY   | Illuminance | Fc    | 4.84 | 9.8  | 1.5 |
| BLDG E EAST & F SOUTH PARKING | Illuminance | Fc    | 1.58 | 11.8 | 0.0 |
| BLDG F NORTH AND EAST PARKING | Illuminance | Fc    | 1.21 | 10.8 | 0.0 |
| PROPERTY LINE                 | Illuminance | Fc    | 0.02 | 0.2  | 0.0 |
| SOUTHEAST ENTRY               | Illuminance | Fc    | 2.97 | 13.2 | 0.3 |
| WEST DRIVE WAY                | Illuminance | Fc    | 1.43 | 9.9  | 0.0 |

mountain view medical center, LLC

# Mountain View Medical Center Redevelopment

10555,10565,10575,10585,10595,10599 N. Tatum Blvd ,  
Paradise Valley, Arizona 85253

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1444 N. 14th St  
Phoenix, AZ 85018 602.802.8106 t

PROJECT NO. 2018\_041  
DATE OF ISSUE 04.16.2019

| REVISION NO. | DATE       |
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| 2            | 11.01.2018 |
| 3            | 01.22.2019 |
| 4            | 02.19.2019 |
| 5            | 03.19.2019 |
| 6            | 04.08.2019 |

PROJECT TEAM John Cantrell  
DRAWN BY BD

PROJECT PHASE  
SUP major amendment  
Review #4

SHEET CONTENTS

photometric site plan  
option #1

SHEET NO.

E-1.1

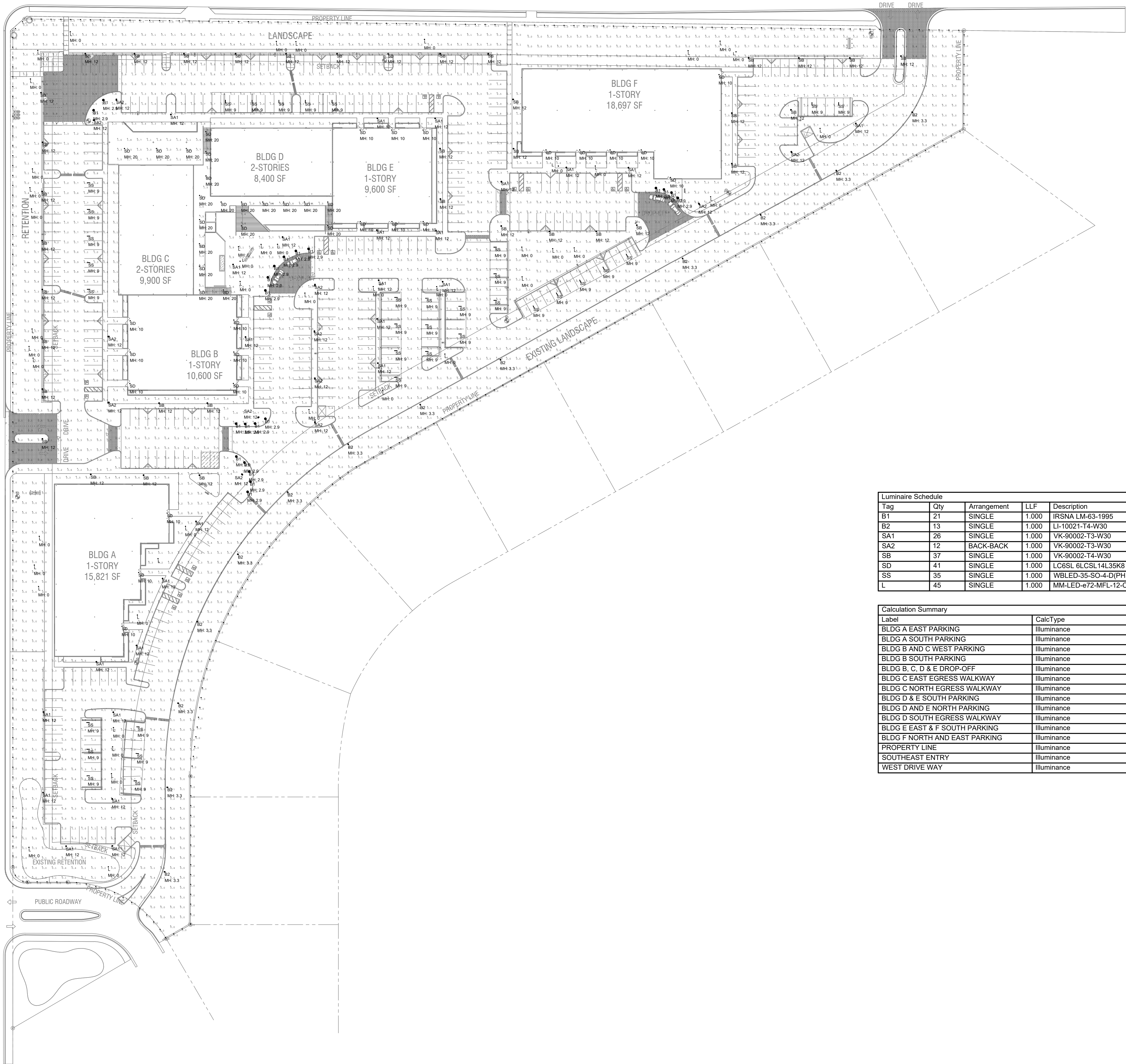
2929 n central ave  
eleventh floor  
phoenix arizona 85012  
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602.257.9029 f  
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HENDERSON ENGINEERS  
5343 N. 16TH STREET, SUITE 460  
PHOENIX, AZ 85016  
TEL 602.336.5200 FAX 602.336.5201  
WWW.HENDERSONENGINEERS.COM  
1850003561  
AZ CORPORATE NUMBER: 10470-0  
EXPIRES 06/30/19

TATUM BOULEVARD

SHEA BOULEVARD



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| Luminaire Schedule |     |             |       |                         |                                      |                         |
|--------------------|-----|-------------|-------|-------------------------|--------------------------------------|-------------------------|
| Tag                | Qty | Arrangement | LLF   | Description             | Mounting Height Above Finished Grade | Lum. Lumens Color Temp. |
| B1                 | 21  | SINGLE      | 1.000 | IRSNA LM-63-1995        | 2'-11"                               | 728 3000 k              |
| B2                 | 13  | SINGLE      | 1.000 | LI-10021-T4-W30         | 3'-4"                                | 2232 3000 k             |
| SA1                | 26  | SINGLE      | 1.000 | VK-90002-T3-W30         | 12'                                  | 4150 3000 k             |
| SA2                | 12  | BACK-BACK   | 1.000 | VK-90002-T3-W30         | 12'                                  | 4150 3000 k             |
| SB                 | 37  | SINGLE      | 1.000 | VK-90002-T4-W30         | 12'                                  | 4221 3000 k             |
| SD                 | 41  | SINGLE      | 1.000 | LC6SL 6LCSL14L35K8      | SEE PLANS                            | 1490 3000 k             |
| SS                 | 35  | SINGLE      | 1.000 | WBLED-3S-SO-4-D(PHIL54) | 9'                                   | 1984 3000 k             |
| L                  | 45  | SINGLE      | 1.000 | MM-LED-672-MFL-12-C     | 0' - GROUND MOUNTED                  | 176 3000 k              |

| Calculation Summary           |             |       |      |      |     |
|-------------------------------|-------------|-------|------|------|-----|
| Label                         | CalcType    | Units | Avg  | Max  | Min |
| BLDG A EAST PARKING           | illuminance | Fc    | 1.27 | 47.6 | 0.0 |
| BLDG A SOUTH PARKING          | illuminance | Fc    | 0.91 | 9.4  | 0.0 |
| BLDG B AND C WEST PARKING     | illuminance | Fc    | 1.59 | 9.2  | 0.1 |
| BLDG B SOUTH PARKING          | illuminance | Fc    | 1.57 | 8.1  | 0.1 |
| BLDG B, C, D & E DROP-OFF     | illuminance | Fc    | 2.20 | 11.7 | 0.4 |
| BLDG C EAST EGRESS WALKWAY    | illuminance | Fc    | 4.80 | 10.3 | 1.0 |
| BLDG C NORTH EGRESS WALKWAY   | illuminance | Fc    | 1.83 | 3.7  | 0.7 |
| BLDG D & E SOUTH PARKING      | illuminance | Fc    | 1.47 | 16.9 | 0.0 |
| BLDG D AND E NORTH PARKING    | illuminance | Fc    | 1.57 | 12.9 | 0.0 |
| BLDG D SOUTH EGRESS WALKWAY   | illuminance | Fc    | 4.84 | 9.8  | 1.5 |
| BLDG E EAST & F SOUTH PARKING | illuminance | Fc    | 1.51 | 11.8 | 0.0 |
| BLDG F NORTH AND EAST PARKING | illuminance | Fc    | 1.06 | 10.8 | 0.0 |
| PROPERTY LINE                 | illuminance | Fc    | 0.02 | 0.1  | 0.0 |
| SOUTHEAST ENTRY               | illuminance | Fc    | 2.94 | 13.2 | 0.2 |
| WEST DRIVE WAY                | illuminance | Fc    | 1.43 | 9.9  | 0.0 |

mountain view medical center, LLC  
**Mountain View Medical  
Center Redevelopment**  
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Paradise Valley, Arizona 85253

**CLIENT CONTACT**  
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3345 N. 14th St.  
Phoenix, AZ 85018  
602.802.8106 t

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| 6                   | 04.08.2019    |
| PROJECT TEAM        | DRAWN BY      |
| John Cantrell       | BD            |
| PROJECT PHASE       |               |
| SUP major amendment |               |
| Review #4           |               |

**SHEET CONTENTS**  
photometric site plan  
option #2  
SHEET NO.

**E-1.2**

orcutt winslow  
2929 n central ave  
eleventh floor  
phoenix arizona 85012  
602.257.1764 t  
602.257.9029 f  
www.owp.com  
REGISTERED ARCHITECT  
NOT FOR CONSTRUCTION  
ARIZONA, U.S.A.

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ENGINEERS**  
5345 N. 16TH STREET, SUITE 460  
PHOENIX, AZ 85016  
TEL 602.336.5200 FAX 602.336.5201  
WWW.HENDERSONENGINEERS.COM  
1850003561  
AZ CORPORATE NUMBER: 10470-0  
EXPIRES 06/30/19

1 LUMINAIRE TYPE "SA1/SA2"  
NTS

---

2 LUMINAIRE TYPE "SB"  
NTS

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### 3 LUMINAIRE TYPE "SD"

#### 4 LUMINAIRE TYPE "SS" NTS

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## E-1.3

2929 n central ave  
eleventh floor  
phoenix arizona 85012

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602.257.9029 f

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# mountain view medical center, LLC Mountain View Medical Center Redevelopment

10555,10565,10575,10585,10595,10599 N. Tatum Blvd ,  
Paradise Valley, Arizona 85253

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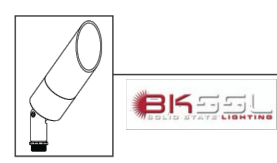
PROJECT TEAM  
**John Cantrell**  
PROJECT PHASE  
**BD**  
DRAWN BY  
**SUP major amendment**  
**Review #4**

SHEET NO.

photometric light  
fixture cut sheets

SHEET NO.

E-1.4



PROJECT:  
TYPE:  
CATALOG NUMBER:  
SOURCE:  
NOTES:

CATALOG NUMBER LOGIC  
Example: DS - LED - e65 - SP - A7 - BZW - 12 - 11 - A - 360SL  
Material: **DS** - Aluminum  
Blank: **B** - Brass  
5: **S** - Stainless Steel  
Series: **DS** - Delta Star™  
Source: **LED** - "e" Technology with Integral Dimming Driver (See Specifications for Dimming)  
Designed for use with e-Lume™ Technology. Requires appropriate LED Voltage Driver.  
LED Type: **e65** - 7W/LED/2K  
**e65** - 7W/LED/3K  
**e74** - 7W/LED/4K  
**e74** - 7W/LED/Amber  
Optics: **SP** - Narrow Spot (Spot Indicator)  
**SP** - Spot (Spot Indicator)  
**MFL** - Medium Flood (Medium Indicator)  
**WFL** - Wide Flood (Wide Indicator)  
Adjust-e-Lume™ Output Intensity (Choose factory setting)  
A9 (Standard), A8, A7, A6, A5, A4, A3, A2, A1  
Finish: **Aluminum Finish** **Brass Finish** **Premium Finish**  
Powder Coat Color: **Satin** **Wet** **Machined** **MAC**  
Bronze: **BZP** **BZW** **POL** **Antique**  
Black: **BLP** **BLW** **Antique** **ANT**  
White Gloss: **WHP** **WHW** **Stainless Steel**  
Aluminum: **SAP** **—** **MAC** **MAC**  
Veneer: **—** **VBR** **Brushed** **Brushed**  
Lens Type: **12** - Soft Focus Lens **13** - Rectilinear Lens  
Shielding: **11** - Honeycomb Baffle  
Cap Style: **A** - 45° **B** - 90° **D** - 45° Less Weep Hole (Weep Hole Only) **E** - 90° Less Weep Hole (Weep Hole Only)  
Option: **360SL** - 360° Rotational Knuckle Mounting System  
DRIVER DATA  
Input Volts: 12VAC/DC 50/60Hz  
Inrush Current: <250mA (non-dimmed)  
Operating Current: 700mA  
Dimmable: Magnetic Low Voltage Dimmer  
Operation Ambient Temperature: -27°/-194°/-30°/-90°C  
LM79 DATA  
BK No. CCT (Typ) Input Watts (Typ) CRI Minimum Rated Life (hrs.)  
e64 2700K 7.0 80 50,000  
e65 3000K 7.0 80 50,000  
e66 4000K 7.0 80 50,000  
e74 Amber (500nm) 7.0 50,000  
OPTICAL DATA  
Beam Type Angle e66 CIRC Visual Indicator  
Narrow Spot 13° 6889 Red Dot  
Spot 12° 3225 Green Dot  
Medium Flood 23° 1984 Yellow Dot  
Wide Flood 31° 1300 Blue Dot  
B-K LIGHTING 40429 Brickyard Drive • Modesto, CA 95808 • USA  
800-438-5800 • FAX 509-438-5800  
www.bklighting.com • info@bklighting.com  
RELEASED: 06-07-16 DRAWING NUMBER: SUB0000930

## 1 LUMINAIRE TYPE "L" NTS

LED bollards with unshielded light

Post construction: Constructed of copper-free extruded and die-cast aluminum. Die-castings are marine grade, copper free (a 0.3% copper content) AS900.0 aluminum alloy.  
Lamp enclosure: Die-cast aluminum post cap with three-ply opal glass diffuser with screw neck. Fully gasketed for weather tight operation using high temperature silicone gasket.  
Electrical: 0.2W LED luminaire, 12.5 total system watts, -30°C start temperature. Integral 120V through 277V electronic LED driver, 0.10V dimming (LED module) are available from factory for easy replacement. Standard LED color temperature is 3000K with a >80 CRI. Available in 4000K (>90 CRI), add suffix K4 to order.  
Note: LEDs supplied with luminaire. Due to the dynamic nature of LED technology, LED luminaire data on this sheet is subject to change at the discretion of BEGA-US. For the most current technical data, please refer to www.bega-us.com.  
Anchor base: Heavy cast aluminum, slotted for precise alignment. Mounts to BEGA 79 B24 anchorage kit. Bollard secures to base with one stainless steel set screw. The mounting system allows the luminaire to be adjusted independent of anchor bolt orientation.  
Finish: All BEGA standard finishes are polyester powder coat with minimum 3 mil thickness. Available in four standard BEGA colors: Black (BLK), White (WHT), Bronze (BRZ), Silver (SLV). To specify, add appropriate suffix to catalog number. Custom colors supplied on special order.  
CSA certified to U.S. and Canadian standards, suitable for wet locations. Protection class IP65  
Weight: 11.5 lbs.  
Luminaire lumens: 728  
Lamp: 0.2W LED  
A: 5% B: 30%  
77743 79017  
BEGA-US 1000 BEGA Way, Carpinteria, CA 93013 (805)684-0533 FAX (805)566-9474 www.bega-us.com  
©Copyright BEGA-US 2016 Updated 1/18

Project:  
Type:  
Color:  
Options:  
Modified:

77743 79017

77743 79017

## 2 LUMINAIRE TYPE "B1" NTS

ULI-10021  
Light Linear PT 1 Single Head Bollard  
microVos TECHNOLOGY  
LIGMAN LIGHTING USA

Construction  
Aluminum  
Less Than 0.1% copper content - Marine Grade 6060 extruded & LM6 Aluminum High Pressure die casting provides excellent mechanical strength, clean detailed product lines and excellent heat dissipation.  
Pre-paint  
8 step degrease and phosphate process that includes degreasing and etching as well as a zinc and nickel phosphate process before product painting.  
Memory Retention - Silicon Gasket  
Provided with special injection molded "fit for purpose" long life high temperature memory retentive silicon gaskets. Maintains the gaskets exact profile and seal over years of use and compression.  
Thermal management  
LM6 Aluminum is used for its excellent mechanical strength and thermal dissipation properties in low and high ambient temperatures. The superior thermal heat sink design by Ligman used in conjunction with the driver, controls thermal build up critical temperature range to ensure maximum luminous flux output, as well as providing long LED service life and ensuring less than 10% lumen depreciation at 50,000 hours.  
Surge Suppression  
Standard 10kV surge suppressor provided with all fixtures.  
BULB Rating  
B1 - LED CRI  
Finishing  
All Ligman products go through an extensive finishing process that includes wetting to improve paint adherence.  
Paint  
UV Stabilized 4.5MI thick powder coat paint and baked at 200 Deg C.  
This process ensures that Ligman products can withstand harsh environments. Rated for use in natoriums.  
Hardware  
Provided Hardware is Marine grade 316 Stainless steel.  
Anti Seize Screw Holes  
Tapped holes are infused with a special anti seize compound designed to prevent seizure of threaded connections, due to electrolysis from heat, corrosive atmospheres and moisture.  
Crystal Clear Low Iron Glass Lens  
Provided with tempered, impact resistant crystal clear low iron glass ensuring no green glass tinge.  
Optics & LED  
Precision optic design provides exceptional light control and precise distribution of light. LED CRI > 80.  
Lumen - Maintenance Life  
L80 B10 at 50,000 hours (This means that at least 80% of the LED still achieve 80% of their original flux)  
Area distribution bollard-integrated projectors. Stylish but technically precise area lighting solutions as part of a large flexible family.  
Light Linear PT1 Bollard is an elegant minimalist bollard that is suitable for both modern and classic architecture. Ideal for creating visual guidance with exceptional visual comfort. The dual optical chamber with integrated heat sink houses a range of field interchangeable optically controlled LEDs, providing Type II, III, IV & V distribution, as well as variations of this for precise light distribution requirements.  
An example of this, is using a combination of Type II and Type IV distribution optics inside the same fixture.  
This product range is available in 29w and 55w options, as single & double head styles.  
Customer specific wattages can be provided, contact the factory for more information.  
This luminaire complies to Dark Sky requirements. Bollards can be provided with GFC boxes positioned to specific heights specified by the customer.  
Internal house side shields are available as an option.  
Optional Security Bollard:  
The Light Linear Bollard is available as a traffic rated security bollard.  
This security bollard provides restraint of vehicular traffic in unauthorized areas.  
Impact calculations show this bollard will stop a 5,500lb/75 tons vehicle, travelling at 30mph.  
For additional strength, the galvanized pole can be filled with concrete up to the weather proof driver housing to provide a solid concrete barrier.  
Additional Options (Consult Factory For Pricing)  
SB Security Bollard  
RCBW or Static Color Laser Cut Lettering, Logos & Designs (LVT Bollard shown for visual reference)  
Ligman can provide custom logos and signage in the Light Linear Bollard. The images above show this feature in the Light Linear VT Bollard.

29W LED 2628 - 2628 Lumens  
IP65 - Suitable For Wet Locations  
IK07 - Impact Resistant (Vandal Resistant)  
Weight 24.6 lbs

7.87" 5.5" 12.6" 3.14" x 7.87" 7.88" 5.52" 1.56"

microVos TECHNOLOGY

Ligman's micro Variable Optical System provides the ability to interchange, mix & rotate optics to provide specific light distributions for optimized spacing and uniformity.

Type I Type II Type III Type IV Type V

The variable optic system allows for the designer to create hybrid distributions for precise lighting requirements.

HYBRID TYPE I & TYPE IV

## 3 LUMINAIRE TYPE "B2" NTS

adjust-e-lume TECHNOLOGY

PROJECT:  
TYPE:

Select OptiSP™ for desired distribution  
RED Narrow Spot (NSP)  
GREEN Spot (SP)  
YELLOW Medium Flood (MFL)  
BLUE Wide Flood (WFL)  
Set adjust-e-lume® Dial to desired output  
New Fungus No. 11 Narrow Spot beam fully beamwidth values by 40

New Fungus No. 11 Spot beam fully beamwidth values by 40

New Fungus No. 11 Medium Flood beamwidth values by 40

New Fungus No. 11 Wide Flood beamwidth values by 40

40429 Brickyard Drive • Modesto, CA 95808 • USA  
800-438-5800 • FAX 509-438-5800  
www.bklighting.com • info@bklighting.com

## 1 LUMINAIRE TYPE "L" NTS

ULI-10021  
Light Linear PT 1 Single Head Bollard  
microVos TECHNOLOGY  
LIGMAN LIGHTING USA

Beam Options  
Type II Distribution Type III Distribution Type IV Distribution  
PROJECT  
QUANTITY  
DATE  
TYPE  
NOTE  
ORDERING EXAMPLE || ULI - 10021 - 29w - T2 - W30 - 02 - 120/27v - Options  
LAMP BEAM LED COLOR FINISH COLOR VOLTAGE  
T2 - Type II Distribution - 2628lm W37 - 2700K 01 - BLACK RAL 9011 02 - 3000V  
T3 - Type III Distribution - 2656lm W35 - 3500K 03 - DARK GREY RAL 7043 04 - WHITE RAL 9003  
W40 - 4000K 05 - METALLIC SILVER RAL 9006 06 - MATTE SILVER RAL 9006 07 - LIGMAN BRONZE 08 - CUSTOM RAL  
ADDITIONAL OPTIONS  
NAT - Natatorium Rated HCT - Custom Bollard Height SC - Static Color (Choose Color e.g Red, Blue etc.) RCBW - Color Changing RGBW  
GCI - GFCI Box SB - Security Bollard EMC - Emergency Back  
AMB - Turtle Friendly Amber LED  
LASER CUT LETTERING  
WORDS FRONT WORDS BACK  
CONSULT FACTORY FOR CUSTOM DESIGNS, LOGOS AND OTHER SPECIAL REQUIREMENTS  
FACTORY DRAWINGS WILL BE PROVIDED PRIOR TO PRODUCTION  
Light Linear Product Family  
ULI-10001 ULI-10022 ULI-10050 ULI-2101 ULI-2101 ULI-2101 ULI-2101  
714 NE Progress Court  
Hillsboro, Oregon 97124  
1.503.645.5555 / 1.503.645.800  
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