

PL201800021  
PL2018-21

BCS 3  
Multi-Family  
8051 33rd Ave S, Bloomington, MN  
55425

**Me**  
Medina Electric, LLC.  
22510 State Highway 55  
Hamel, MN 55340  
Phone 763-478-6828  
Fax 763-478-6055

**esc**  
ARCHITECTURE & DESIGN

500 Washington Avenue South, Suite 1080  
Minneapolis, MN 55415  
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I hereby certify that this document was  
prepared by me or under my direct supervision  
and that I am a duly licensed engineer  
under the laws of the State of Minnesota  
Signature Steven M. Young  
Typed or Printed Name  
16544 1/22/19  
License # Date

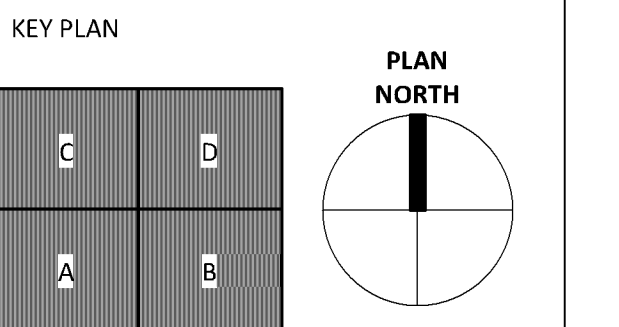
**STEEN**  
ENGINEERING INC.  
763-585-6742  
763-585-6757 fax  
Email: steen@steeneng.com  
5430 Douglas Drive North  
Crystal, MN 55429

**PERMIT SET**  
1/22/19

PERMIT SET: 01/22/19

REVISIONS:  
No. Description Date

MED201801  
PROJECT NUMBER



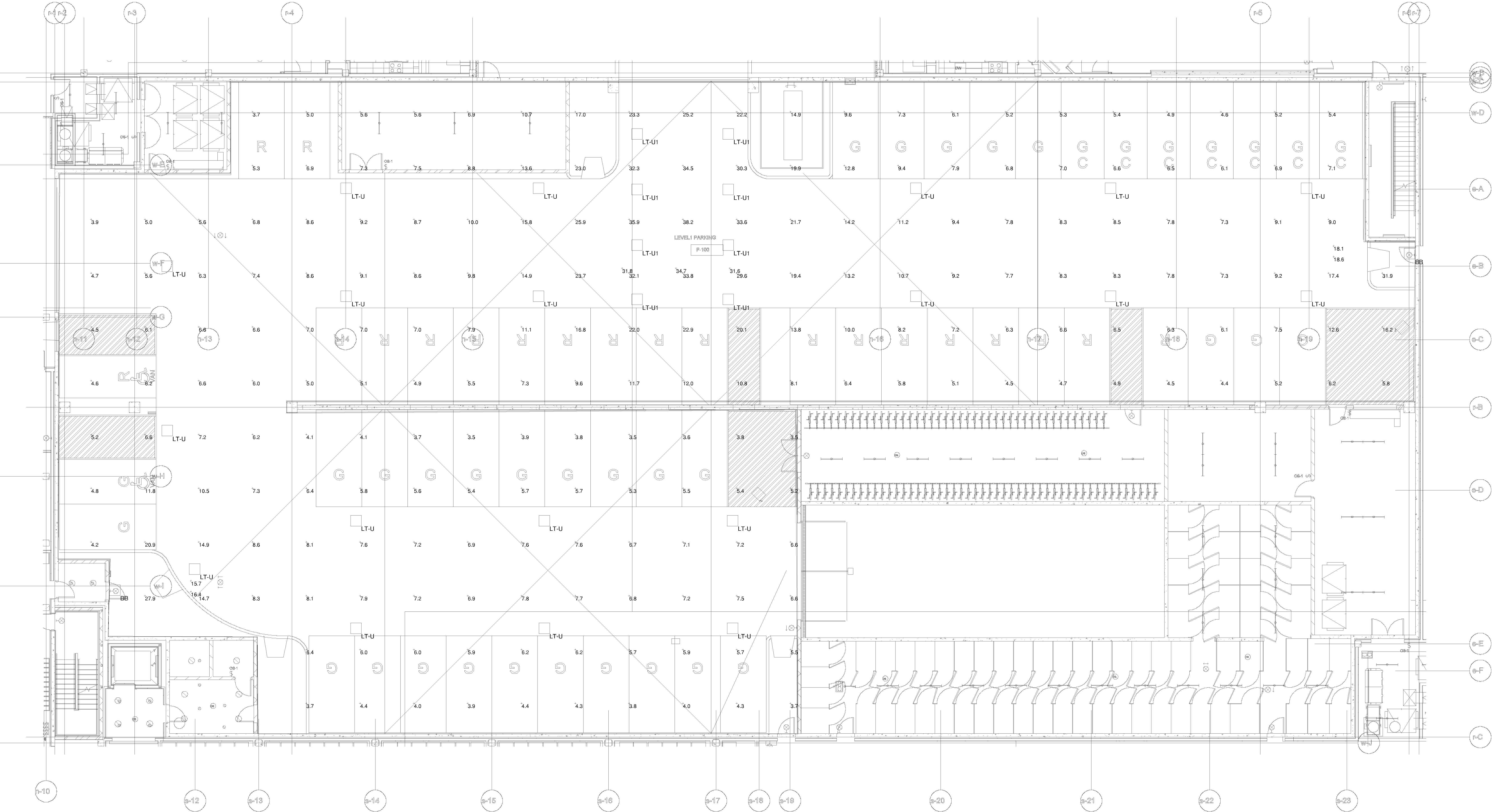
BCS 3 Multi-Family  
OVERALL SITE  
PHOTOMETRIC PLAN -  
INITIAL

**E0.2b**

1 SiteOverallInitial  
1" = 20'-0"

1/23/2019 3:00:37 PM

PL201800021  
PL2018-21



1 LEVEL 1 PHOTOMETRICS - INITIAL  
1/8" = 1'-0"

| Schedule |       |          |                   |                                  |                                                                                                                                                                                                                         |              |                 |                   |         |
|----------|-------|----------|-------------------|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------|-------------------|---------|
| Symbol   | Label | Quantity | Manufacturer      | Catalog Number                   | Description                                                                                                                                                                                                             | Number Lamps | Lumens Per Lamp | Light Loss Factor | Wattage |
|          | LT-U  | 19       | RAB LIGHTING INC. | PRT55, PRT55/D10                 | FROSTED TRANSLUCENT PLASTIC DIFFUSER, SANDWICHED BETWEEN CAST METAL HOUSING AND CAST METAL HEAT SINK. DIFFUSER FROSTED SIDE IN. 4 WHITE CIRCUIT BOARD EACH WITH 50 LEDs. MOLDED PLASTIC REFLECTOR WITH SPECULAR FINISH. | 120          | 53              | 1                 | 57.2    |
|          | LT-U1 | 8        | RAB LIGHTING INC. | PRT105, PRT105/D10               | FROSTED TRANSLUCENT PLASTIC DIFFUSER, SANDWICHED BETWEEN CAST METAL HOUSING AND CAST METAL HEAT SINK. DIFFUSER FROSTED SIDE IN. 4 WHITE CIRCUIT BOARD EACH WITH 48 LEDs. MOLDED PLASTIC REFLECTOR WITH SPECULAR FINISH. | 192          | 61              | 1                 | 101.9   |
|          | BB    | 2        | Lithonia Lighting | DSKW2 LED 30C 1000 50K T4M MVOLT | DSKW2 LED WITH 3 LIGHT ENGINES, 30 LEDs, 1000mA DRIVER, 5000K LED, TYPE 4 MEDIUM OPTIC                                                                                                                                  | 1            | 11198           | 1                 | 109     |

| Statistics                     |        |         |         |         |         |         |
|--------------------------------|--------|---------|---------|---------|---------|---------|
| Description                    | Symbol | Avg     | Max     | Min     | Max/Min | Avg/Min |
| 35' From Vehicle Entrance/Exit | +      | 32.7 fc | 34.7 fc | 31.6 fc | 1.1:1   | 1.0:1   |
| Level 1 Parking                | +      | 9.5 fc  | 38.2 fc | 3.5 fc  | 10.9:1  | 2.7:1   |
| Ped Entrance                   | +      | 18.4 fc | 18.6 fc | 18.1 fc | 1.0:1   | 1.0:1   |
| Ped Entrance                   | +      | 16.0 fc | 16.4 fc | 15.7 fc | 1.0:1   | 1.0:1   |

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Signature: *Steven M. Young*  
Typed or Printed Name: Steven M. Young  
License #: 16544 Date: 1/22/19

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KEY PLAN

|   |   |
|---|---|
| C | D |
| A | B |

PLAN NORTH

BCS 3 Multi-Family  
LEVEL 1 RAMP  
PHOTOMETRIC PLAN - INITIAL  
**E0.3**

| Statistics   |        |         |         |         |         |         |
|--------------|--------|---------|---------|---------|---------|---------|
| Description  | Symbol | Avg     | Max     | Min     | Max/Min | Avg/Min |
| Level 2      |        |         |         |         |         |         |
| Parking      | +      | 6.6 fc  | 30.2 fc | 2.9 fc  | 10.4:1  | 2.3:1   |
| Ped Entrance | +      | 14.9 fc | 15.1 fc | 14.7 fc | 1.0:1   | 1.0:1   |
| Ped Entrance | +      | 15.3 fc | 16.2 fc | 14.8 fc | 1.1:1   | 1.0:1   |

## E0.5

Architectural floor plan of Level 01, showing a large rectangular building layout. The plan includes a grid of rooms, corridors, and service areas. Key features include:

- Room Numbers and Dimensions:** Numerous rooms are labeled with numbers (e.g., 1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 1.7, 1.8, 1.9, 1.10, 1.11, 1.12, 1.13, 1.14, 1.15, 1.16, 1.17, 1.18, 1.19, 1.20, 1.21, 1.22, 1.23, 1.24, 1.25, 1.26, 1.27, 1.28, 1.29, 1.30, 1.31, 1.32, 1.33, 1.34, 1.35, 1.36, 1.37, 1.38, 1.39, 1.40, 1.41, 1.42, 1.43, 1.44, 1.45, 1.46, 1.47, 1.48, 1.49, 1.50, 1.51, 1.52, 1.53, 1.54, 1.55, 1.56, 1.57, 1.58, 1.59, 1.60, 1.61, 1.62, 1.63, 1.64, 1.65, 1.66, 1.67, 1.68, 1.69, 1.70, 1.71, 1.72, 1.73, 1.74, 1.75, 1.76, 1.77, 1.78, 1.79, 1.80, 1.81, 1.82, 1.83, 1.84, 1.85, 1.86, 1.87, 1.88, 1.89, 1.90, 1.91, 1.92, 1.93, 1.94, 1.95, 1.96, 1.97, 1.98, 1.99, 2.00, 2.01, 2.02, 2.03, 2.04, 2.05, 2.06, 2.07, 2.08, 2.09, 2.10, 2.11, 2.12, 2.13, 2.14, 2.15, 2.16, 2.17, 2.18, 2.19, 2.20, 2.21, 2.22, 2.23, 2.24, 2.25, 2.26, 2.27, 2.28, 2.29, 2.30, 2.31, 2.32, 2.33, 2.34, 2.35, 2.36, 2.37, 2.38, 2.39, 2.40, 2.41, 2.42, 2.43, 2.44, 2.45, 2.46, 2.47, 2.48, 2.49, 2.50, 2.51, 2.52, 2.53, 2.54, 2.55, 2.56, 2.57, 2.58, 2.59, 2.60, 2.61, 2.62, 2.63, 2.64, 2.65, 2.66, 2.67, 2.68, 2.69, 2.70, 2.71, 2.72, 2.73, 2.74, 2.75, 2.76, 2.77, 2.78, 2.79, 2.80, 2.81, 2.82, 2.83, 2.84, 2.85, 2.86, 2.87, 2.88, 2.89, 2.90, 2.91, 2.92, 2.93, 2.94, 2.95, 2.96, 2.97, 2.98, 2.99, 3.00, 3.01, 3.02, 3.03, 3.04, 3.05, 3.06, 3.07, 3.08, 3.09, 3.10, 3.11, 3.12, 3.13, 3.14, 3.15, 3.16, 3.17, 3.18, 3.19, 3.20, 3.21, 3.22, 3.23, 3.24, 3.25, 3.26, 3.27, 3.28, 3.29, 3.30, 3.31, 3.32, 3.33, 3.34, 3.35, 3.36, 3.37, 3.38, 3.39, 3.40, 3.41, 3.42, 3.43, 3.44, 3.45, 3.46, 3.47, 3.48, 3.49, 3.50, 3.51, 3.52, 3.53, 3.54, 3.55, 3.56, 3.57, 3.58, 3.59, 3.60, 3.61, 3.62, 3.63, 3.64, 3.65, 3.66, 3.67, 3.68, 3.69, 3.70, 3.71, 3.72, 3.73, 3.74, 3.75, 3.76, 3.77, 3.78, 3.79, 3.80, 3.81, 3.82, 3.83, 3.84, 3.85, 3.86, 3.87, 3.88, 3.89, 3.90, 3.91, 3.92, 3.93, 3.94, 3.95, 3.96, 3.97, 3.98, 3.99, 4.00, 4.01, 4.02, 4.03, 4.04, 4.05, 4.06, 4.07, 4.08, 4.09, 4.10, 4.11, 4.12, 4.13, 4.14, 4.15, 4.16, 4.17, 4.18, 4.19, 4.20, 4.21, 4.22, 4.23, 4.24, 4.25, 4.26, 4.27, 4.28, 4.29, 4.30, 4.31, 4.32, 4.33, 4.34, 4.35, 4.36, 4.37, 4.38, 4.39, 4.40, 4.41, 4.42, 4.43, 4.44, 4.45, 4.46, 4.47, 4.48, 4.49, 4.50, 4.51, 4.52, 4.53, 4.54, 4.55, 4.56, 4.57, 4.58, 4.59, 4.60, 4.61, 4.62, 4.63, 4.64, 4.65, 4.66, 4.67, 4.68, 4.69, 4.70, 4.71, 4.72, 4.73, 4.74, 4.75, 4.76, 4.77, 4.78, 4.79, 4.80, 4.81, 4.82, 4.83, 4.84, 4.85, 4.86, 4.87, 4.88, 4.89, 4.90, 4.91, 4.92, 4.93, 4.94, 4.95, 4.96, 4.97, 4.98, 4.99, 5.00, 5.01, 5.02, 5.03, 5.04, 5.05, 5.06, 5.07, 5.08, 5.09, 5.10, 5.11, 5.12, 5.13, 5.14, 5.15, 5.16, 5.17, 5.18, 5.19, 5.20, 5.21, 5.22, 5.23, 5.24, 5.25, 5.26, 5.27, 5.28, 5.29, 5.30, 5.31, 5.32, 5.33, 5.34, 5.35, 5.36, 5.37, 5.38, 5.39, 5.40, 5.41, 5.42, 5.43, 5.44, 5.45, 5.46, 5.47, 5.48, 5.49, 5.50, 5.51, 5.52, 5.53, 5.54, 5.55, 5.56, 5.57, 5.58, 5.59, 5.60, 5.61, 5.62, 5.63, 5.64, 5.65, 5.66, 5.67, 5.68, 5.69, 5.70, 5.71, 5.72, 5.73, 5.74, 5.75, 5.76, 5.77, 5.78, 5.79, 5.80, 5.81, 5.82, 5.83, 5.84, 5.85, 5.86, 5.87, 5.88, 5.89, 5.90, 5.91, 5.92, 5.93, 5.94, 5.95, 5.96, 5.97, 5.98, 5.99, 6.00, 6.01, 6.02, 6.03, 6.04, 6.05, 6.06, 6.07, 6.08, 6.09, 6.10, 6.11, 6.12, 6.13, 6.14, 6.15, 6.16, 6.17, 6.18, 6.19, 6.20, 6.21, 6.22, 6.23, 6.24, 6.25, 6.26, 6.27, 6.28, 6.29, 6.30, 6.31, 6.32, 6.33, 6.34, 6.35, 6.36, 6.37, 6.38, 6.39, 6.40, 6.41, 6.42, 6.43, 6.44, 6.45, 6.46, 6.47, 6.48, 6.49, 6.50, 6.51, 6.52, 6.53, 6.54, 6.55, 6.56, 6.57, 6.58, 6.59, 6.60, 6.61, 6.62, 6.63, 6.64, 6.65, 6.66, 6.67, 6.68, 6.69, 6.70, 6.71, 6.72, 6.73, 6.74, 6.75, 6.76, 6.77, 6.78, 6.79, 6.80, 6.81, 6.82, 6.83, 6.84, 6.85, 6.86, 6.87, 6.88, 6.89, 6.90, 6.91, 6.92, 6.93, 6.94, 6.95, 6.96, 6.97, 6.98, 6.99, 7.00, 7.01, 7.02, 7.03, 7.04, 7.05, 7.06, 7.07, 7.08, 7.09, 7.10, 7.11, 7.12, 7.13, 7.14, 7.15, 7.16, 7.17, 7.18, 7.19, 7.20, 7.21, 7.22, 7.23, 7.24, 7.25, 7.26, 7.27, 7.28, 7.29, 7.30, 7.31, 7.32, 7.33, 7.34, 7.35, 7.36, 7.37, 7.38, 7.39, 7.40, 7.41, 7.42, 7.43, 7.44, 7.45, 7.46, 7.47, 7.48, 7.49, 7.50, 7.51, 7.52, 7.53, 7.54, 7.55, 7.56, 7.57, 7.58, 7.59, 7.60, 7

| Schedule                                                                            |       |          |                   |                                   |                                                                                                                                                                                                                        |              |                 |                   |         |                 |
|-------------------------------------------------------------------------------------|-------|----------|-------------------|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------|-------------------|---------|-----------------|
| Symbol                                                                              | Label | Quantity | Manufacturer      | Catalog Number                    | Description                                                                                                                                                                                                            | Number Lamps | Lumens Per Lamp | Light Loss Factor | Wattage | Mounting Height |
|  | LT-U  | 29       | RAB LIGHTING INC. | PRT55, PRT55-D10                  | FROSTED TRANSLUCENT PLASTIC DIFFUSER SANDWICHED BETWEEN CAST METAL HOUSING AND CAST METAL HEAT SINK. DIFFUSER FROSTED SIDE IN. 4 WHITE CIRCUIT BOARD EACH WITH 30 LEDS. MOLDED PLASTIC REFLECTOR WITH SPECULAR FINISH. | 120          | 53              | 1                 | 57.2    | 9'              |
|  | BB    | 2        | Lithonia Lighting | DSXW2 LED 20C 1000 50K T-4M MVOLT | DSXW2 LED WITH 2 LIGHT ENGINES, 20 LED's, 1000mA DRIVER, 5000K LED, TYPE 4 MEDIUM OPTIC                                                                                                                                | 1            | 7646            | 1                 | 73      | 7'              |

| Statistics        |        |         |         |         |         |         |
|-------------------|--------|---------|---------|---------|---------|---------|
| Description       | Symbol | Avg     | Max     | Min     | Max/Min | Avg/Min |
| Level 3-5 Parking | +      | 6.3 fc  | 21.6 fc | 2.6 fc  | 8.3:1   | 2.4:1   |
| Ped Entrance      | +      | 12.2 fc | 12.5 fc | 11.8 fc | 1.1:1   | 1.0:1   |
| Ped Entrance      | +      | 12.4 fc | 12.7 fc | 12.2 fc | 1.0:1   | 1.0:1   |

## E0.7

PL201800021  
PL2018-21

BCS 3  
Multi-Family  
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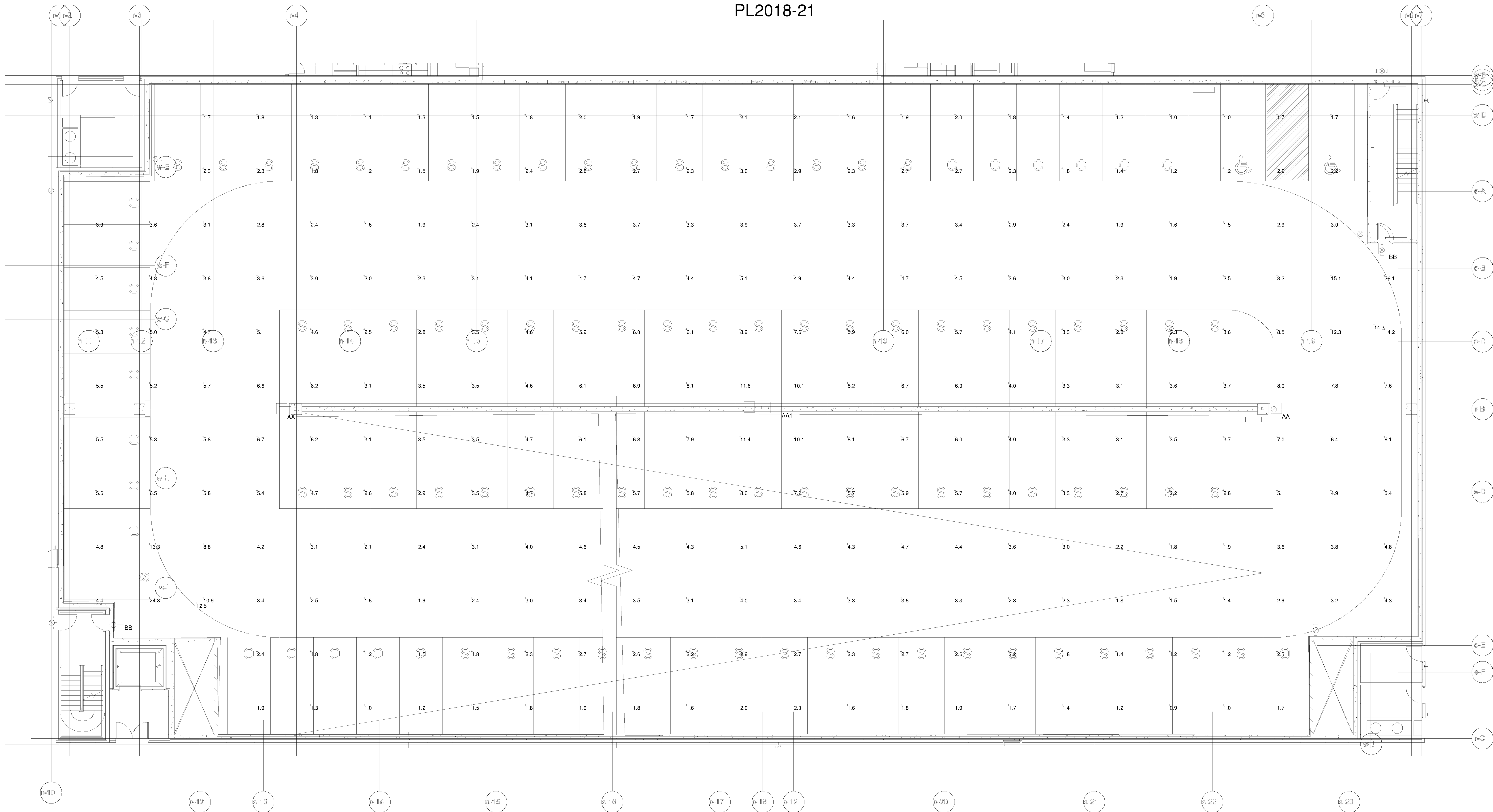
REVISIONS:  
No. Description Date

MED201801  
PROJECT NUMBER

KEY PLAN  
PLAN NORTH  
C D  
A B

BCS 3 Multi-Family  
LEVEL 6 RAMP  
PHOTOMETRIC PLAN - INITIAL

**E0.9**

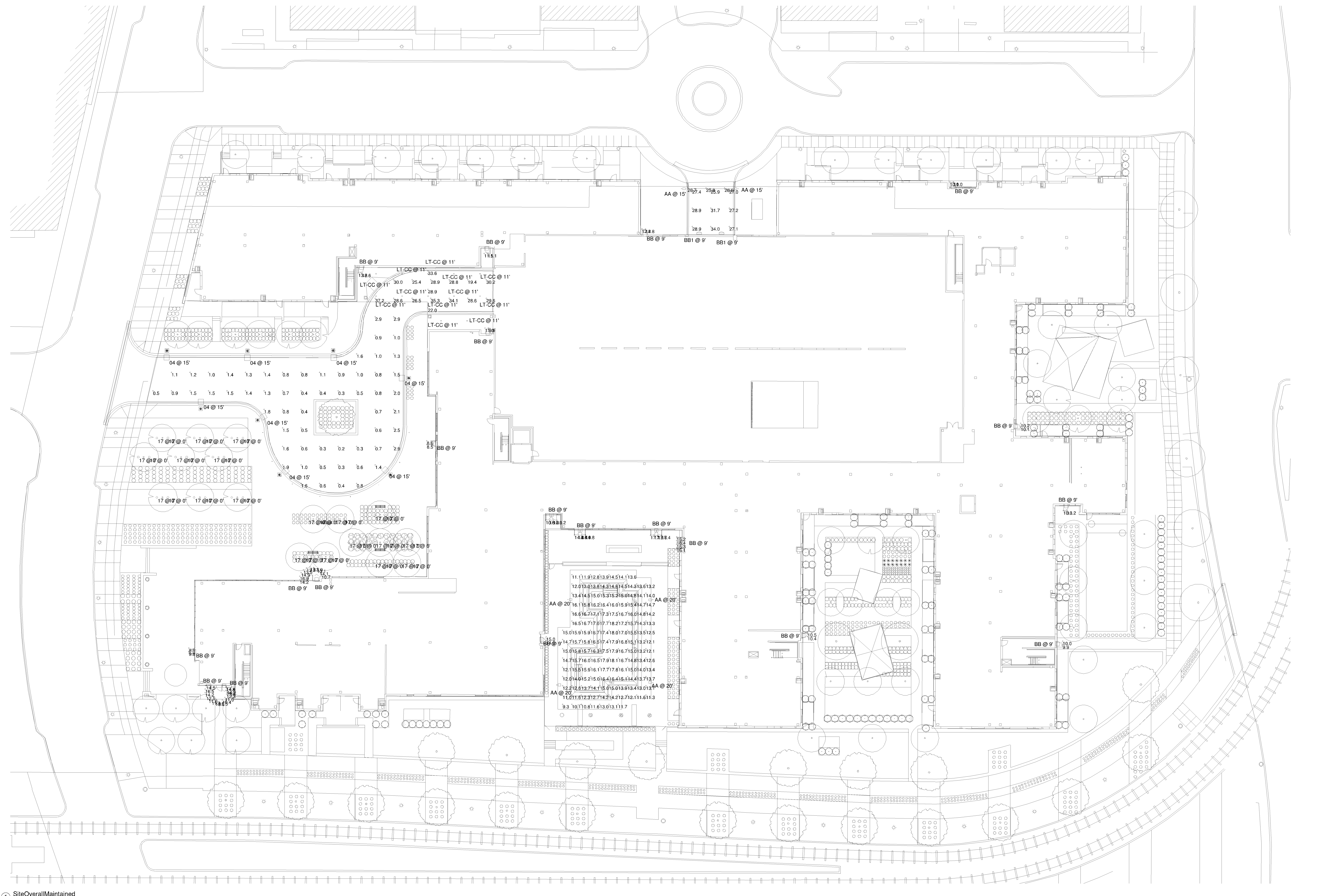


| Schedule |       |          |                   |                                  |                                                                                         |                 |                   |         |                 |
|----------|-------|----------|-------------------|----------------------------------|-----------------------------------------------------------------------------------------|-----------------|-------------------|---------|-----------------|
| Symbol   | Label | Quantity | Manufacturer      | Catalog Number                   | Description                                                                             | Lumens Per Lamp | Light Loss Factor | Wattage | Mounting Height |
|          | AA    | 2        | Lithonia Lighting | DSX2 LED P4 50K TFTM MVOLT       | DSX2 LED P4 50K TFTM MVOLT                                                              | 33810           | 1                 | 270     | 25'             |
|          | AA1   | 1        | Lithonia Lighting | DSX2 LED P4 50K TFTM MVOLT       | DSX2 LED P4 50K TFTM MVOLT                                                              | 33810           | 1                 | 540     | 25'             |
|          | BB    | 2        | Lithonia Lighting | DSXW2 LED 30C 1000 50K T4M MVOLT | DSXW2 LED WITH 3 LIGHT ENGINES, 30 LED's, 1000mA DRIVER, 5000K LED, TYPE 4 MEDIUM OPTIC | 11198           | 1                 | 109     | 7'              |

| Statistics  |        |         |         |         |         |         |
|-------------|--------|---------|---------|---------|---------|---------|
| Description | Symbol | Avg     | Max     | Min     | Max/Min | Avg/Min |
| Entrance    | +      | 12.5 fc | 12.5 fc | 12.5 fc | 1.0:1   | 1.0:1   |
| Entrance    | +      | 14.3 fc | 14.3 fc | 14.3 fc | 1.0:1   | 1.0:1   |
| Level 6     | +      | 4.0 fc  | 26.1 fc | 0.9 fc  | 29.0:1  | 4.4:1   |
| Parking     | +      | 4.0 fc  | 26.1 fc | 0.9 fc  | 29.0:1  | 4.4:1   |

1 LEVEL 6 PHOTOMETRICS - INITIAL  
1/8" = 1'-0"

PL201800021  
PL2018-21



1 SiteOverallMaintained  
1" = 20'-0"

1/23/2019 3:00:37 PM

BCS 3

Multi-Family

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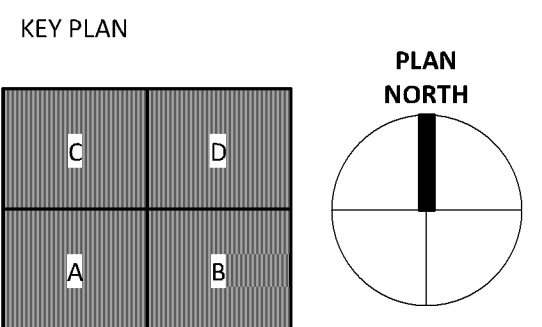
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REVISIONS:

No. Description Date

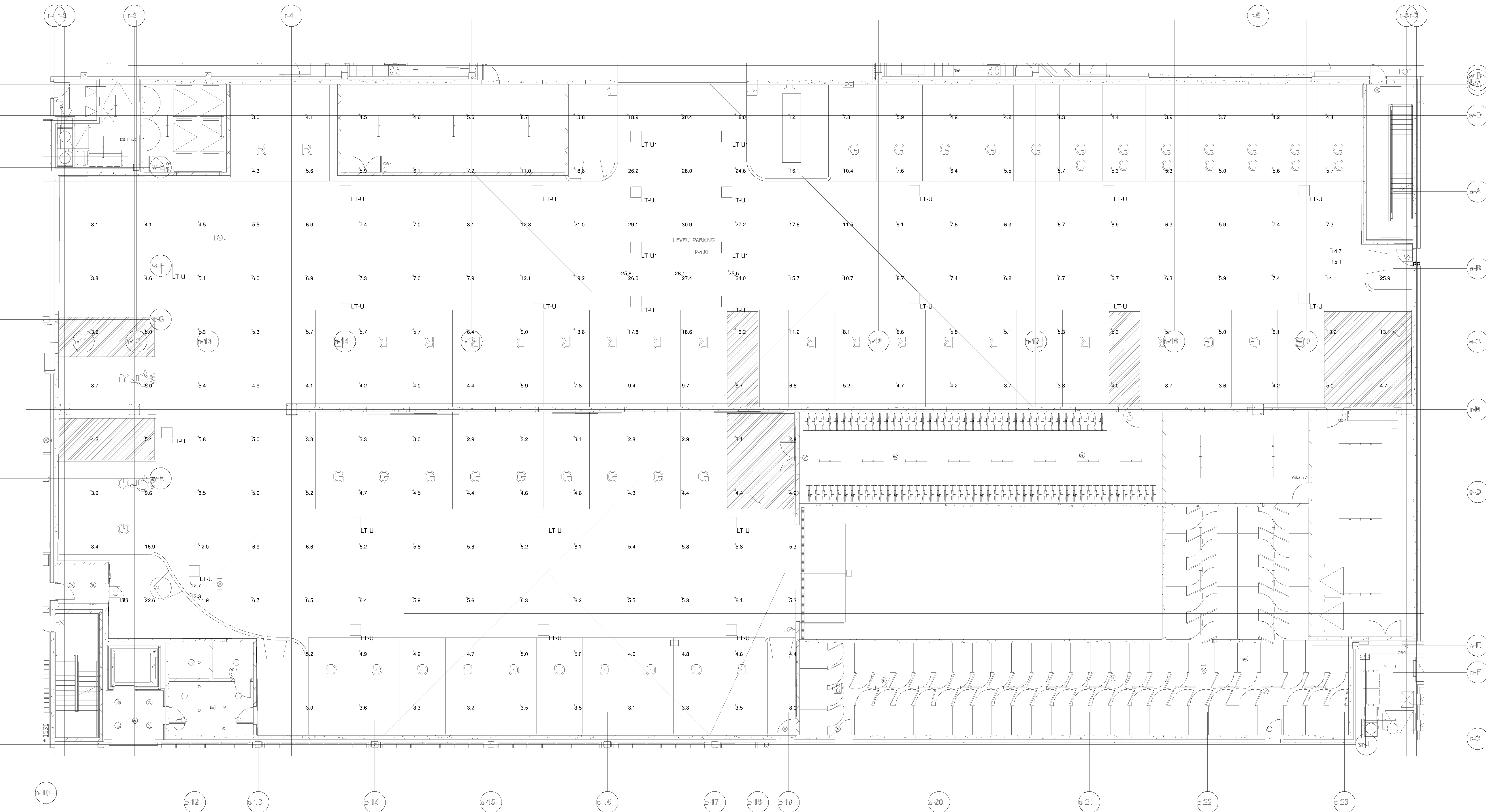
MED201801  
PROJECT NUMBER



BCS 3 Multi-Family  
OVERALL SITE  
PHOTOMETRIC PLAN -  
MAINTAINED

E0.2a

PL201800021  
PL2018-21



① LEVEL 1 PHOTOMETRICS - MAINTAINED  
1/8" = 1'-0"

| Schedule |       |          |                   |                                  |                                                                                                                                                                                                                         |              |                 |                   |         |                 |
|----------|-------|----------|-------------------|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------|-------------------|---------|-----------------|
| Symbol   | Label | Quantity | Manufacturer      | Catalog Number                   | Description                                                                                                                                                                                                             | Number Lamps | Lumens Per Lamp | Light Loss Factor | Wattage | Mounting Height |
|          | LT-U  | 19       | RAB LIGHTING INC. | PRT55, PRT55D10                  | FROSTED TRANSLUCENT PLASTIC DIFFUSER, SANDWICHED BETWEEN CAST METAL HOUSING AND CAST METAL HEAT SINK. DIFFUSER FROSTED SIDE IN. 4 WHITE CIRCUIT BOARD EACH WITH 50 LENS. MOLDED PLASTIC REFLECTOR WITH SPECULAR FINISH. | 120          | 52              | 0.81              | 57.2    | 10'             |
|          | LT-U1 | 8        | RAB LIGHTING INC. | PRT105, PRT105D10                | FROSTED TRANSLUCENT PLASTIC DIFFUSER, SANDWICHED BETWEEN CAST METAL HOUSING AND CAST METAL HEAT SINK. DIFFUSER FROSTED SIDE IN. 4 WHITE CIRCUIT BOARD EACH WITH 48 LENS. MOLDED PLASTIC REFLECTOR WITH SPECULAR FINISH. | 192          | 61              | 0.81              | 101.9   | 10'             |
|          | BB    | 2        | Uthoria Lighting  | DSXW2 LED 30C 1000 50K T4M MVOLT | DSXW2 LED WITH 3 LIGHT ENGINES, 30 LEDs, 1000mA DRIVER, 5000K LED, TYPE 4 MEDIUM OPTIC                                                                                                                                  | 1            | 11198           | 0.81              | 109     | 7'              |

| Statistics                     |        |         |         |         |         |         |
|--------------------------------|--------|---------|---------|---------|---------|---------|
| Description                    | Symbol | Avg     | Max     | Min     | Max/Min | Avg/Min |
| 35' From Vehicle Entrance/Exit | +      | 26.5 fc | 28.1 fc | 25.6 fc | 1.1:1   | 1.0:1   |
| Level 1 Parking                | +      | 7.7 fc  | 30.9 fc | 2.8 fc  | 11.0:1  | 2.8:1   |
| Ped Entrance                   | +      | 14.9 fc | 15.1 fc | 14.7 fc | 1.0:1   | 1.0:1   |
| Ped Entrance                   | +      | 13.0 fc | 13.3 fc | 12.7 fc | 1.0:1   | 1.0:1   |

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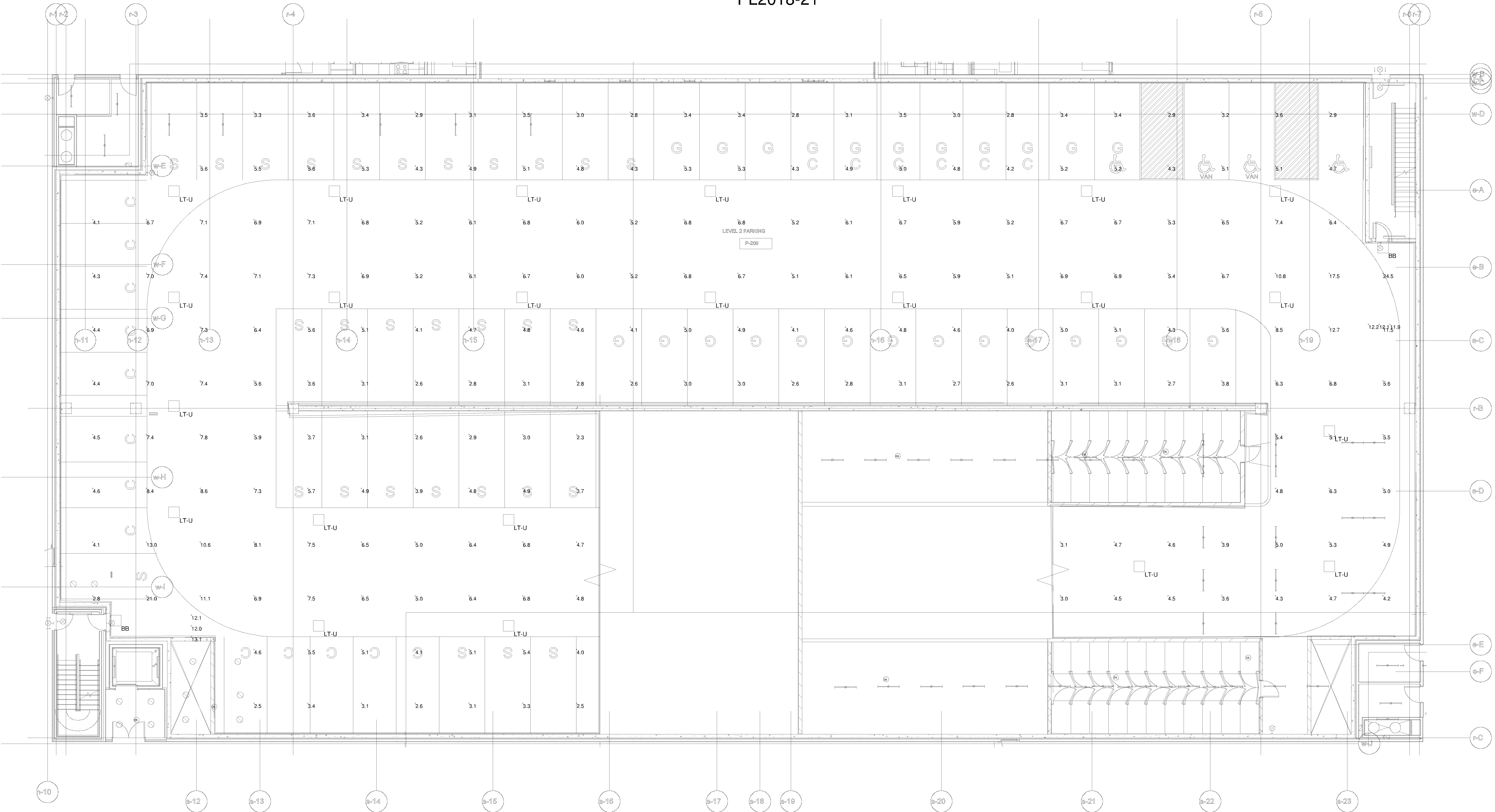
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No. Description Date

MED201801  
PROJECT NUMBER

KEY PLAN

BCS 3 Multi-Family  
LEVEL 1 RAMP  
PHOTOMETRIC PLAN - MAINTAINED  
**E0.4**

PL201800021  
PL2018-21



1 LEVEL 2 PHOTOMETRICS - MAINTAINED  
1/8" = 1'-0"

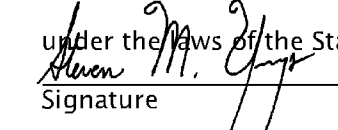
| Schedule                                                                            |       |          |                   |                                  |                                                                                                                                                                                                                         |              |                 |                   |         |                 |
|-------------------------------------------------------------------------------------|-------|----------|-------------------|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------|-------------------|---------|-----------------|
| Symbol                                                                              | Label | Quantity | Manufacturer      | Catalog Number                   | Description                                                                                                                                                                                                             | Number Lamps | Lumens Per Lamp | Light Loss Factor | Wattage | Mounting Height |
|  | LT-U  | 23       | RAB LIGHTING INC. | PRT55, PRT55/D10                 | FROSTED TRANSLUCENT PLASTIC DIFFUSER, SANDWICHED BETWEEN CAST METAL HOUSING AND CAST METAL HEAT SINK. DIFFUSER FROSTED SIDE IN. 4 WHITE CIRCUIT BOARD EACH WITH 30 LEDS. MOLDED PLASTIC REFLECTOR WITH SPECULAR FINISH. | 120          | 53              | 0.81              | 57.2    | 9'              |
|  | BB    | 2        | Lithonia Lighting | DSXW2 LED 30C 1000 50K T4M MVOLT | DSXW2 LED WITH 3 LIGHT ENGINES, 30 LED'S, 1000mA DRIVER, 5000K LED, TYPE 4 MEDIUM OPTIC                                                                                                                                 | 1            | 11198           | 0.81              | 109     | 7'              |

| Statistics      |        |         |         |         |         |         |
|-----------------|--------|---------|---------|---------|---------|---------|
| Description     | Symbol | Avg     | Max     | Min     | Max/Min | Avg/Min |
| Level 2 Parking | +      | 5.3 fc  | 24.5 fc | 2.3 fc  | 10.7:1  | 2.3:1   |
| Ped Entrance    | +      | 12.1 fc | 12.2 fc | 11.9 fc | 1.0:1   | 1.0:1   |
| Ped Entrance    | +      | 12.4 fc | 13.1 fc | 12.0 fc | 1.1:1   | 1.0:1   |

BCS 3  
Multi-Family  
8051 33rd Ave S, Bloomington, MN 55425

**Me**  
Medina Electric, LLC.  
22510 State Highway 55  
Hamel, MN 55340  
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Fax 763-478-6055

**esc**  
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I hereby certify that this document was prepared by me or under my direct supervision and that I am a duly licensed engineer under the laws of the State of Minnesota.  
Signature:   
Typed or Printed Name: Steven M. Young  
License #: 16544 Date: 1/22/19

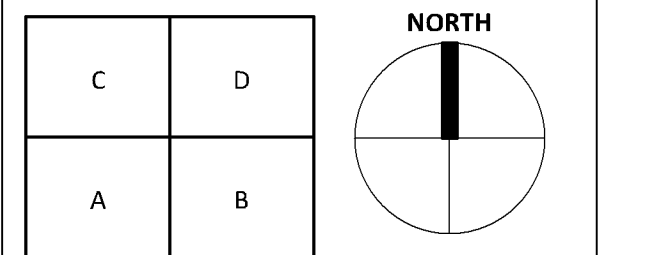
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763-585-6757 fax  
Email: steen@steeneng.com  
5430 Douglas Drive North  
Crystal, MN 55429

PERMIT SET  
1/22/19

PERMIT SET: 01/22/19

REVISIONS:  
No. Description Date

MED201801  
PROJECT NUMBER

KEY PLAN  


BCS 3 Multi-Family  
LEVEL 2 RAMP  
PHOTOMETRIC PLAN - MAINTAINED  
**E0.6**

PL201800021  
PL2018-21

BCS 3  
Multi-Family  
8051 33rd Ave S, Bloomington, MN  
55425

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16544 1/22/19  
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**PERMIT SET**  
1/22/19

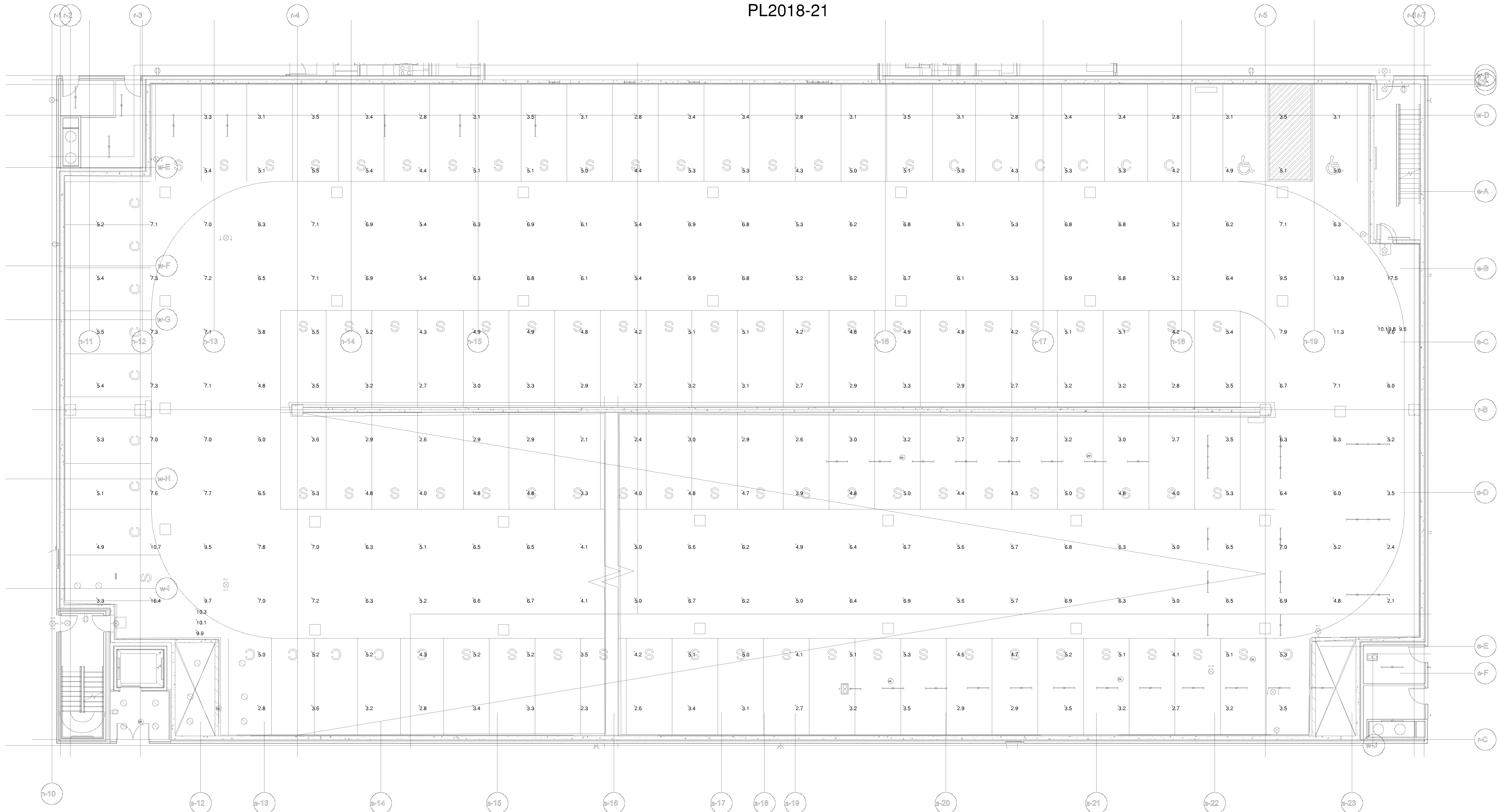
PERMIT SET: 01/22/19

REVISIONS:  
No. Description Date

MED201801  
PROJECT NUMBER

KEY PLAN  
PLAN NORTH  
1

BCS 3 Multi-Family  
LEVEL 3-5 RAMP  
PHOTOMETRIC PLAN -  
MAINTAINED  
**E0.8**



| Schedule |       |          |                   |                                  |                                                                                                                                                                                                                         |              |                 |                   |         |                 |
|----------|-------|----------|-------------------|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------|-------------------|---------|-----------------|
| Symbol   | Label | Quantity | Manufacturer      | Catalog Number                   | Description                                                                                                                                                                                                             | Number Lamps | Lumens Per Lamp | Light Loss Factor | Wattage | Mounting Height |
|          | LT-U  | 29       | RAB LIGHTING INC. | PRT55, PRT55/D10                 | FROSTED TRANSLUCENT PLASTIC DIFFUSER, SANDWICHED BETWEEN CAST METAL HOUSING AND CAST METAL HEAT SINK. DIFFUSER FROSTED SIDE IN. 4 WHITE CIRCUIT BOARD EACH WITH 30 LEDS. MOLDED PLASTIC REFLECTOR WITH SPECULAR FINISH. | 120          | 53              | 0.81              | 57.2    | 9               |
|          | BB    | 2        | Lithonia Lighting | DSXW2 LED 20C 1000 50K T4M 1VOLT | DSXW2 LED WITH 2 LIGHT ENGINES, 20 LED's, 1000mA DRIVER, 5000K LED, TYPE 4 MEDIUM OPTIC                                                                                                                                 | 1            | 7646            | 0.81              | 73      | 7               |

| Statistics        |        |         |         |        |         |         |
|-------------------|--------|---------|---------|--------|---------|---------|
| Description       | Symbol | Avg     | Max     | Min    | Max/Min | Avg/Min |
| Level 3-5 Parking | +      | 5.1 fc  | 17.5 fc | 2.1 fc | 8.3:1   | 2.4:1   |
| Ped Entrance      | +      | 9.8 fc  | 10.1 fc | 9.6 fc | 1.1:1   | 1.0:1   |
| Ped Entrance      | +      | 10.1 fc | 10.3 fc | 9.9 fc | 1.0:1   | 1.0:1   |

LEVEL 3-5 PHOTOMETRICS -  
MAINTAINED  
1/8" = 1'-0"

| Statistics       |        |         |         |         |         |         |
|------------------|--------|---------|---------|---------|---------|---------|
| Description      | Symbol | Avg     | Max     | Min     | Max/Min | Avg/Min |
| Entrance         | +      | 10.1 fc | 10.1 fc | 10.1 fc | 1.0:1   | 1.0:1   |
| Entrance Level 6 | +      | 11.5 fc | 11.5 fc | 11.5 fc | 1.0:1   | 1.0:1   |
| Parking          | +      | 3.2 fc  | 21.1 fc | 0.8 fc  | 26.4:1  | 4.0:1   |

## E0.10

## TYPE 04

Light building element with LEDs

**Peel Construction:** One piece thick-walled aluminum extrusion with a die-cast end cap at the top and internal heavy wall cast aluminum support pieces at the post base. The casting is an marine grade, copper free (0.5% copper content) A5052 aluminum alloy.

**Enclosure:** Clear safety glass. The lamp enclosure is die cast and extruded aluminum vessels together to form a water tight lamp enclosure. The lens is attached to an aluminum frame that is mipped to the lamp enclosure.

**Mounting:** The lens frame is secured with stainless steel cap nuts threaded into a stainless steel insert. Fully gasketed for weather tight operation using molded silicone rubber gasket. The entire lamp enclosure rotates a 180° turn horizontal.

**Electrical:** 18-24V LED, 22 system watts, 25°C start temperature, standard LED color temperature is 4000K with a 400 CRI. Available in 3000K (soft white) and 5000K (daylight) to order. Integral electronic 120V through 277V LED driver and surge protector, 0-10V dimming.

**Note:** Due to the dynamic nature of LED technology, LED luminaire data on this sheet is subject to change at the discretion of BCS3-LLS. For the most current technical data, please refer to [www.bcs3-lls.com](http://www.bcs3-lls.com).

**Anchor base:** Supplied with an 79802 anchorage, consisting of a heavy gauge welded assembly of 1/2" thick galvanized steel. The luminaire sits top over the base and is secured by eight (8) stainless steel fasteners.

**Finish:** All BCS3 standard finishes are polyester powder coat with minimum 3 mil thickness. Available in four standard BCS3 colors: Black (BLK), White (WHI), Bronze (BRZ), Silver (SLV). To specify and appropriate finish, list catalog number. Custom colors supplied on special order.

**UL listed:** for US and Canadian Standards, suitable for wet locations. Protection class: IP65.

**Technical Data:**

| Symbol | Label | Quantity | Manufacturer                                       | Catalog Number                   | Description                                                                             | Lamp               | Number Lamps | Lumens Per Lamp | Light Loss Factor | Wattage |
|--------|-------|----------|----------------------------------------------------|----------------------------------|-----------------------------------------------------------------------------------------|--------------------|--------------|-----------------|-------------------|---------|
| □      | 04    | 8        | BEGA Converted by LUMCAL V 01.03.2017 / H.R.       |                                  | 88 977 K3                                                                               | LED 19.2W          | 1            | 2562            | 0.81              | 23      |
| ○      | 17    | 36       | BEGA Converted by LUMCAL V 18.02.2015 / 28.08.2017 | 77752                            |                                                                                         | LED 7.2W           | 1            | 411             | 0.81              | 10      |
| □      | AA    | 6        | Lithonia Lighting                                  | DSX2 LED P4 SK TFFM MVOLT        | DSX2 LED P4 SK TFFM MVOLT                                                               | LED                | 1            | 33810           | 0.81              | 270     |
| □      | BB    | 20       | Lithonia Lighting                                  | DSXW2 LED 20C 1000 50K T4M MVOLT | DSXW2 LED WITH 3 LIGHT ENGINES, 30 LED'S, 1000mA DRIVER, 5000K LED, TYPE 4 MEDIUM OPTIC | LED                | 1            | 7646            | 0.81              | 73      |
| □      | BB1   | 2        | Lithonia Lighting                                  | DSXW2 LED 30C 1000 50K T4M MVOLT | DSXW2 LED WITH 3 LIGHT ENGINES, 30 LED'S, 1000mA DRIVER, 5000K LED, TYPE 4 MEDIUM OPTIC | LED                | 1            | 11188           | 0.81              | 109     |
| ○      | LT-CC | 12       | BEACON                                             | CLO-24L-55-4K7-SAS-LRV           | Recessed Canopy with NEIMA Type 5 Optics                                                | 24 Cree 4000K LEDs | 1            | 6207            | 0.81              | 54.4    |

**Finish:** All BCS3 standard finishes are matte, textured polyester powder coat with minimum 3 mil thickness.

**Available colors:** □ Black (BLK) □ White (WHI) □ RAL □ Bronze (BRZ) □ Silver (SLV) □ CUS:

**Luminaire Lumens:** 2562

**Single light building element**

**88977 19.2W LED** 19.2W 616 43% 181 79802

**BEGA 1000 BEGA Way, Capetown, CA 92013 (858) 684-3033 FAX: (858) 565-9474 www.bega-us.com**

**Copyright BCS3 2018 Updated 07/20/2018**

## TYPE 17

LED bollard - 180° distribution

**Application:** LED bollard with shielded 180° light distribution. This luminaire is designed to provide one sided illumination of ground surfaces. Provided with mounting system that allows the luminaire to be adjusted independent of anchor bolt orientation.

**Materials:** Luminaire housing and base constructed of die-cast and extruded marine grade, copper free (0.5% copper content) A306.0 aluminum alloy. Bonafide glass lens. Reflector made of pure anodized aluminum high temperature aluminum painted. Mechanically captive stainless steel fastener.

**NTL:** Listed to North American Standards, suitable for wet locations. Protection class: IP65. Weight: 5.7 lbs.

**Electrical:** Operating voltage: 120-277VAC Minimum start temperature: -20°C LED module wattage: 2.2W System wattage: 10.0W Dimmable: 0-10V dimmable Color rendering index: Ra > 90 Luminaire lumens: 411 lumens (3000K) Lifetime at Ta = 15°C: 77,000 h (L70) Lifetime at Ta = 55°C: 53,000 h (L70)

**LED color temperature:** □ 4000K - Product number = **K4** □ 3000K - Product number = **K30** □ 5000K - Product number = **K50** □ 2700K - Product number = **K27**

**BEGA** can supply you with suitable LED replacement modules for up to 20 years after the purchase of LED luminaire - see website for details.

**Finish:** All BCS3 standard finishes are matte, textured polyester powder coat with minimum 3 mil thickness.

**Available colors:** □ Black (BLK) □ White (WHI) □ RAL □ Bronze (BRZ) □ Silver (SLV) □ CUS:

**Technical Data:**

| Symbol | Label | Quantity | Manufacturer                                       | Catalog Number                   | Description                                                                             | Lamp               | Number Lamps | Lumens Per Lamp | Light Loss Factor | Wattage |
|--------|-------|----------|----------------------------------------------------|----------------------------------|-----------------------------------------------------------------------------------------|--------------------|--------------|-----------------|-------------------|---------|
| □      | 04    | 8        | BEGA Converted by LUMCAL V 01.03.2017 / H.R.       |                                  | 88 977 K3                                                                               | LED 19.2W          | 1            | 2562            | 0.81              | 23      |
| ○      | 17    | 36       | BEGA Converted by LUMCAL V 18.02.2015 / 28.08.2017 | 77752                            |                                                                                         | LED 7.2W           | 1            | 411             | 0.81              | 10      |
| □      | AA    | 6        | Lithonia Lighting                                  | DSX2 LED P4 SK TFFM MVOLT        | DSX2 LED P4 SK TFFM MVOLT                                                               | LED                | 1            | 33810           | 0.81              | 270     |
| □      | BB    | 20       | Lithonia Lighting                                  | DSXW2 LED 20C 1000 50K T4M MVOLT | DSXW2 LED WITH 3 LIGHT ENGINES, 30 LED'S, 1000mA DRIVER, 5000K LED, TYPE 4 MEDIUM OPTIC | LED                | 1            | 7646            | 0.81              | 73      |
| □      | BB1   | 2        | Lithonia Lighting                                  | DSXW2 LED 30C 1000 50K T4M MVOLT | DSXW2 LED WITH 3 LIGHT ENGINES, 30 LED'S, 1000mA DRIVER, 5000K LED, TYPE 4 MEDIUM OPTIC | LED                | 1            | 11188           | 0.81              | 109     |
| ○      | LT-CC | 12       | BEACON                                             | CLO-24L-55-4K7-SAS-LRV           | Recessed Canopy with NEIMA Type 5 Optics                                                | 24 Cree 4000K LEDs | 1            | 6207            | 0.81              | 54.4    |

**Finish:** All BCS3 standard finishes are matte, textured polyester powder coat with minimum 3 mil thickness.

**Available colors:** □ Black (BLK) □ White (WHI) □ RAL □ Bronze (BRZ) □ Silver (SLV) □ CUS:

**Luminaire Lumens:** 2562

**Single light building element**

**88977 19.2W LED** 19.2W 616 43% 181 79802

**BEGA 1000 BEGA Way, Capetown, CA 92013 (858) 684-3033 FAX: (858) 565-9474 www.bega-us.com**

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## PL201800021

### PL2018-21

Schedule - MAINTAINED

Symbol

Label

Quantity

Manufacturer

Catalog Number

Description

Lamp

Number Lamps

Lumens Per Lamp

Light Loss Factor

Wattage

88 977 K3

LED 19.2W

1

2562

0.81

23

77752

LED 7.2W

1

411

0.81

10

DSX2 LED P4 SK TFFM MVOLT

DSX2 LED P4 SK TFFM MVOLT

LED

1

33810

0.81

270

DSXW2 LED 20C 1000 50K T4M MVOLT

DSXW2 LED WITH 3 LIGHT ENGINES, 30 LED'S, 1000mA DRIVER, 5000K LED, TYPE 4 MEDIUM OPTIC

LED

1

7646

0.81

73

DSXW2 LED 30C 1000 50K T4M MVOLT

DSXW2 LED WITH 3 LIGHT ENGINES, 30 LED'S, 1000mA DRIVER, 5000K LED, TYPE 4 MEDIUM OPTIC

LED

1

11188

0.81

109

CLO-24L-55-4K7-SAS-LRV

Recessed Canopy with NEIMA Type 5 Optics

24 Cree 4000K LEDs

1

6207

0.81

54.4

Statistics - MAINTAINED

Description

Symbol

Avg

Max

Min

MaxMin

AvgMin

Door A

Door B

Door C

Door D

Door E

Door F

Door G

Door H

Door I

Door J

Door K

Door L

Door M

Door N - Retail

Door O

Door P - Main Bldg

Door R

Door S

Garage Entrance North

Garage Entrance West

Garage North Entrance

Pool Deck - 5th

Pool Surface

West Driveway

15.8%

11.5%

12.8%

10.1%

10.1%

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## BCS 3

### Multi-Family

8051 33rd Ave S, Bloomington, MN 55425

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Typed or Printed Name **Steven M. Young**

16544 1/22/19 Date

License #

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