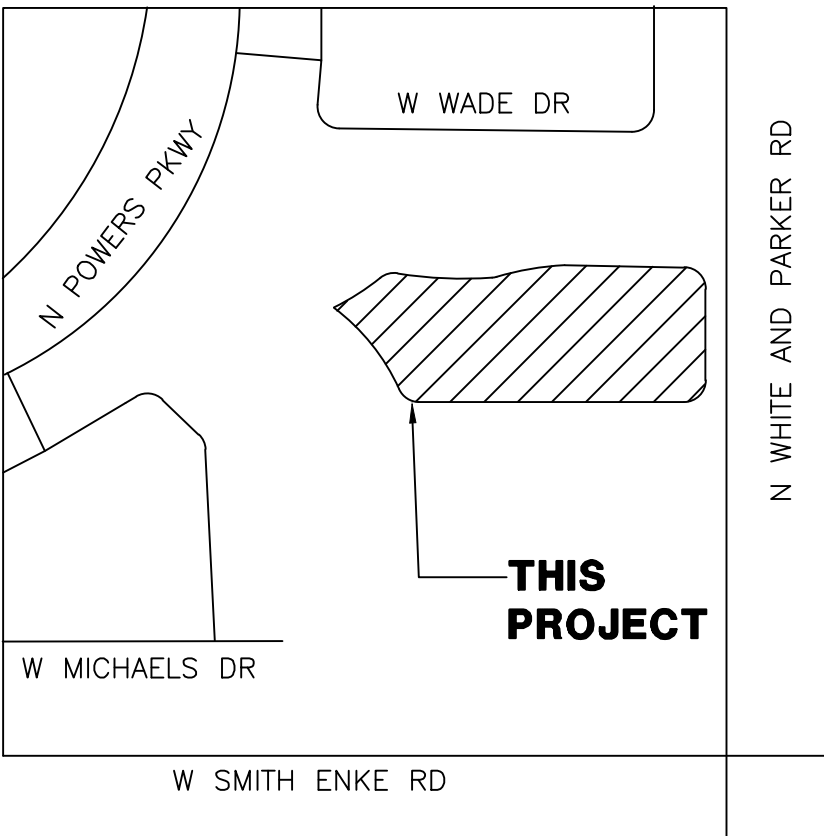


SAN TRAVASA BTR

N WHITE AND PARKER RD & W SMITH ENKE RD

PHOTOMETRIC LIGHTING PLAN



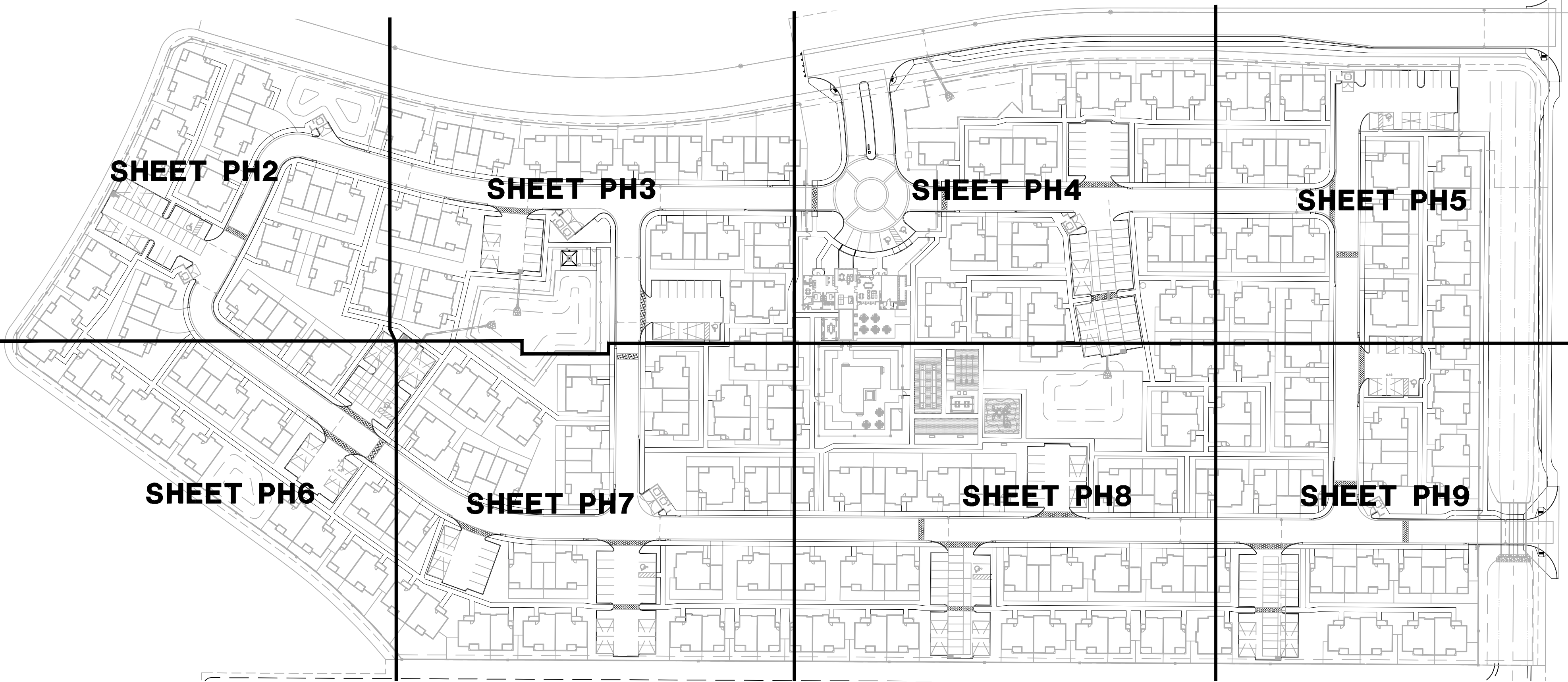
CALCULATIONS

DRIVE AISLES & PARKING	BOUNDARY LINE
1734 points	419 points
HORIZONTAL FOOTCANDLES	HORIZONTAL FOOTCANDLES
Average 1.11	Average 0.1
Maximum 4.15	Maximum 1.6
Minimum 0.13	Minimum 0.0
Avg:Min 8.56	Avg:Min N/A
Max:Min 31.92	Max:Min N/A
Coef Var 0.76	Coef Var 3.33

WALKWAYS	LANDSCAPE AREAS
1356 points	154 points
HORIZONTAL FOOTCANDLES	HORIZONTAL FOOTCANDLES
Average 1.2	Average 4.7
Maximum 25.5	Maximum 51.7
Minimum 0.1	Minimum 0.1
Avg:Min 12.04	Avg:Min 47.36
Max:Min 255.00	Max:Min 517.00
Coef Var 1.76	Coef Var 2.21

LEGEND

- 263W T3 COURT LIGHT
candela file 'VUE-2-TT-80L-1-40K.IES'
1 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 0.900, watts per luminaire = 263
mounting height= 14 ft
number locations= 4, number luminaires= 4
kw all locations= 1.1
- 50W LED 5W AREA LIGHT
candela file 'PGR-1_T5W_32LC_3_3K.IES'
1 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 0.900, watts per luminaire = 35
mounting height= 14 ft
number locations= 60, number luminaires= 60
kw all locations= 2.1
- 25W RAMADA LIGHT
candela file 'VPF4_4FT_25W_40K_CLP.ies'
168 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 0.900, watts per luminaire = 27
mounting height= 8.5 ft
number locations= 3, number luminaires= 3
kw all locations= 0.1
- 25W CANOPY LIGHT
candela file 'CNC-E01-LED-E1-SQ.ies'
21 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 0.900, watts per luminaire = 25
mounting height= 8.5 ft
number locations= 42, number luminaires= 42
kw all locations= 1.0
- 19W LED BOLLARD
candela file 'rab03691.ies'
15 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 0.900, watts per luminaire = 18
mounting height= 3.6 ft
number locations= 72, number luminaires= 72
kw all locations= 1.3
- GENERIC PORCH LIGHT
candela file 's19050042b-01 11A19DIM 830_IESNA95.IES'
1 lamp(s) per luminaire, 1150 initial lumens per lamp
Light Loss Factor = 0.900, watts per luminaire = 11
mounting height= 6.5 ft
number locations= 261, number luminaires= 261
kw all locations= 2.9



DEVELOPER

HILGART WILSON
2141 E. HIGHLAND AVE. STE. 250
PHOENIX, AZ 85016
PHONE: (602) 490-0535 EXT. 530
CONTACT: RYAN MORTILLARO, PE
EMAIL: RMORTILLARO@HILGARTWILSON.COM

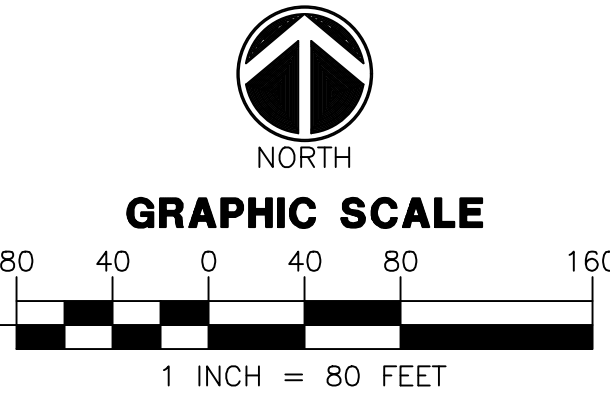
ELECTRICAL ENGINEER

WRIGHT ENGINEERING CORPORATION
165 EAST CHILTON DRIVE
CHANDLER, AZ 85225
PHONE: (480) 497-5829
FAX: (480) 497-5807
CONTACT: CHRISTIAN LAURITZEN
EMAIL: CLAURITZEN@WRIGHTENGINEERING.US

SHEET INDEX

SHEET PH1	PHOTOMETRIC COVER SHEET
SHEET PH2	PHOTOMETRIC CALCULATIONS
SHEET PH3	PHOTOMETRIC CALCULATIONS
SHEET PH4	PHOTOMETRIC CALCULATIONS
SHEET PH5	PHOTOMETRIC CALCULATIONS
SHEET PH6	PHOTOMETRIC CALCULATIONS
SHEET PH7	PHOTOMETRIC CALCULATIONS
SHEET PH8	PHOTOMETRIC CALCULATIONS
SHEET PH9	PHOTOMETRIC CALCULATIONS
SHEET PH10	PHOTOMETRIC CUT SHEETS & DETAILS
SHEET PH11	PHOTOMETRIC CUT SHEETS & DETAILS
SHEET PH12	PHOTOMETRIC CUT SHEETS & DETAILS
SHEET PH13	PHOTOMETRIC CUT SHEETS & DETAILS

PHOTOMETRIC COVER SHEET



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PHOTOMETRIC CALCULATION
SHEET. FOR INFORMATION ONLY.

PROJECT NAME:
SAN TRAVASA BTR
N WHITE AND PARKER RD & W SMITH ENKE RD
PHOTOMETRIC LIGHTING PLAN
WRIGHT ENG.
PROJECT NO: **22615-PH**
DESIGN BY: CDL **PH1**

CALCULATIONS

DRIVE AISLES & PARKING	BOUNDARY LINE
1734 points	419 points
HORIZONTAL FOOTCANDLES	HORIZONTAL FOOTCANDLES
Average 1.11	Average 0.1
Maximum 4.15	Maximum 1.6
Minimum 0.13	Minimum 0.0
Avg:Min 8.56	Avg:Min N/A
Max:Min 31.92	Max:Min N/A
Coef Var 0.76	Coef Var 3.33

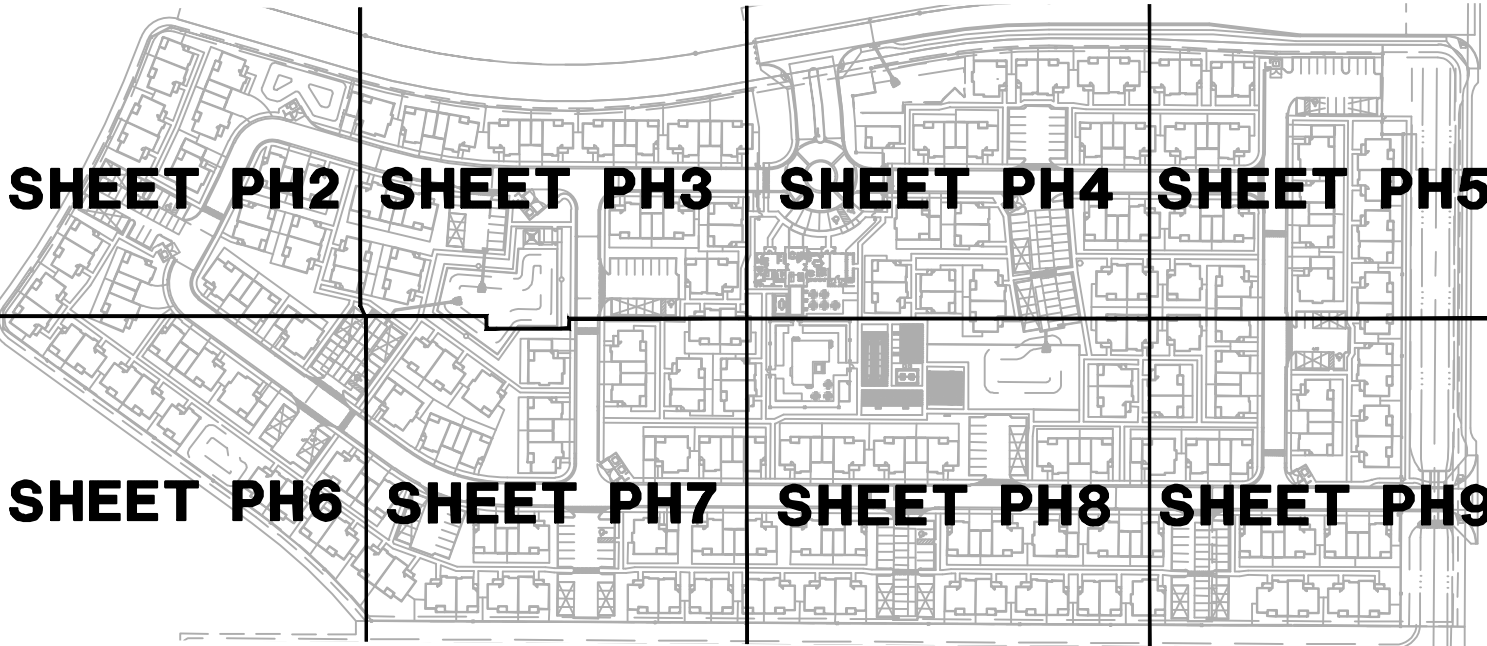
WALKWAYS	LANDSCAPE AREAS
1356 points	154 points
HORIZONTAL FOOTCANDLES	HORIZONTAL FOOTCANDLES
Average 1.2	Average 4.7
Maximum 25.5	Maximum 51.7
Minimum 0.1	Minimum 0.1
Avg:Min 12.04	Avg:Min 47.36
Max:Min 255.00	Max:Min 517.00
Coef Var 1.76	Coef Var 2.21

LEGEND

- 263W T3 COURT LIGHT
candela file 'VUE-2-TT-80L-1-40K.IES'
1 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 0.900, watts per luminaire = 263
mounting height= 14 ft
number locations= 4, number luminaires= 4
kw all locations= 1.1
- 50W LED SW AREA LIGHT
candela file 'PCR-1_T5W_32LC_3_3K.IES'
1 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 0.900, watts per luminaire = 35
mounting height= 14 ft
number locations= 60, number luminaires= 60
kw all locations= 2.1
- 25W RAMADA LIGHT
candela file 'VPF4-4FT_25W_40K_CLP.ies'
168 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 0.900, watts per luminaire = 27
mounting height= 8.5 ft
number locations= 3, number luminaires= 3
kw all locations= 0.1
- 25W CANOPY LIGHT
candela file 'CNC-E01-LED-E1-SQ.ies'
21 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 0.900, watts per luminaire = 25
mounting height= 8.5 ft
number locations= 42, number luminaires= 42
kw all locations= 1.0
- 19W LED BOLLARD
candela file 'rab03691.ies'
15 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 0.900, watts per luminaire = 18
mounting height= 3.6 ft
number locations= 72, number luminaires= 72
kw all locations= 1.3
- GENERIC PORCH LIGHT
candela file 's19050042b-01 11A19DIM 830_IESNA95.IES'
1 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 0.900, watts per luminaire = 11
mounting height= 6.5 ft
number locations= 261, number luminaires= 261
kw all locations= 2.9

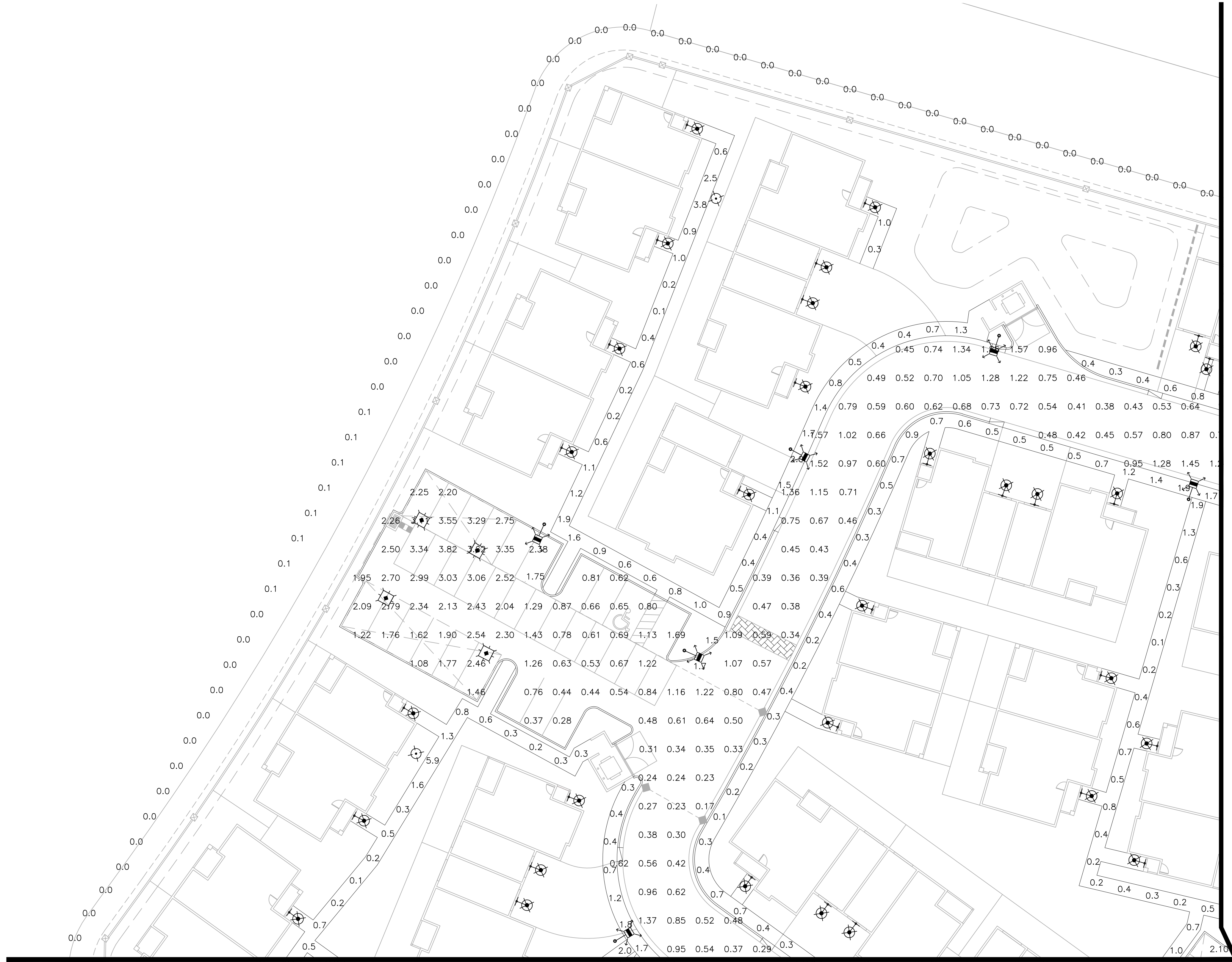
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SHEET PH6 SHEET PH7 SHEET PH8 SHEET PH9

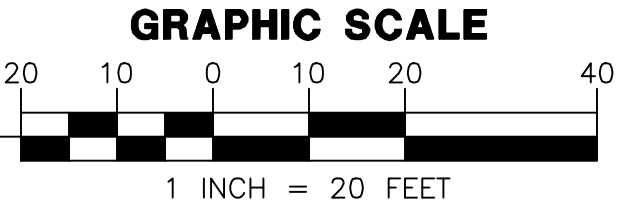


MATCH LINE 'A' SEE SHEET PH3

MATCH LINE 'D' SEE SHEET PH6



PHOTOMETRIC CALCULATIONS



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PHOTOMETRIC CALCULATION
SHEET. FOR INFORMATION ONLY.

Professional Engineer
73954
JACOB
BIELEFELD
Date Signed: 7/1/2023
Expires 6/30-24

PROJECT NAME:
SAN TRAVASA BTR
N WHITE AND PARKER RD & W SMITH ENKE RD
PHOTOMETRIC LIGHTING PLAN
WRIGHT ENG.
PROJECT NO: **22615-PH**
DESIGN BY: CDL **PH2**

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MATCH LINE 'A' SEE SHEET PH2

MATCH LINE 'B' SEE SHEET PH4

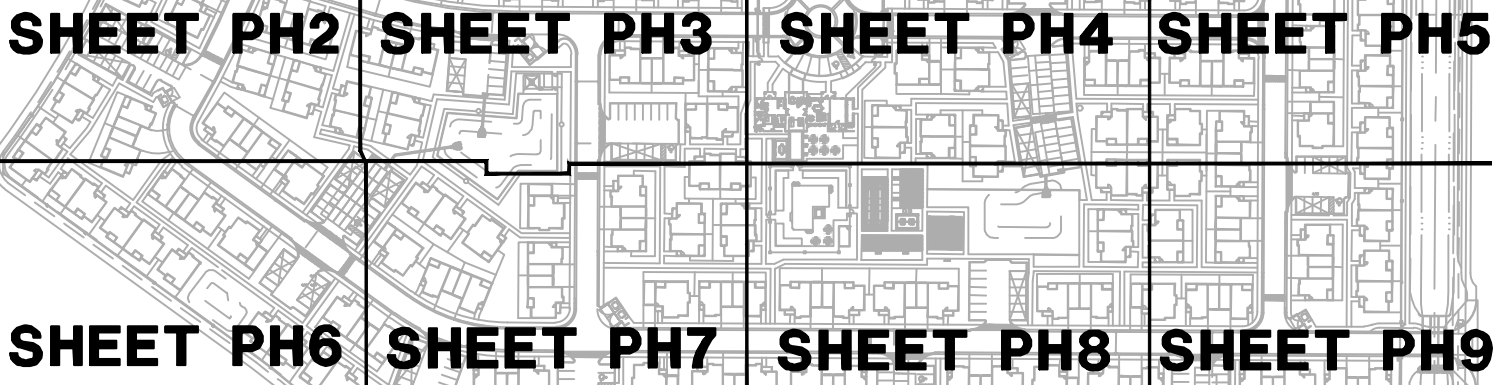
CALCULATIONS

DRIVE AISLES & PARKING	BOUNDARY LINE
1734 points	419 points
HORIZONTAL FOOTCANDLES	HORIZONTAL FOOTCANDLES
Average 1.11	Average 0.1
Maximum 4.15	Maximum 1.6
Minimum 0.13	Minimum 0.0
Avg:Min 8.56	Avg:Min N/A
Max:Min 31.92	Max:Min N/A
Coef Var 0.76	Coef Var 3.33

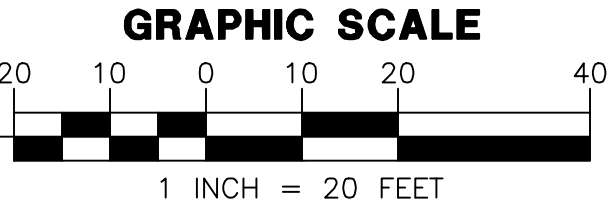
WALKWAYS	LANDSCAPE AREAS
1356 points	154 points
HORIZONTAL FOOTCANDLES	HORIZONTAL FOOTCANDLES
Average 1.2	Average 4.7
Maximum 25.5	Maximum 51.7
Minimum 0.1	Minimum 0.1
Avg:Min 12.04	Avg:Min 47.36
Max:Min 255.00	Max:Min 517.00
Coef Var 1.76	Coef Var 2.21

LEGEND

- 263W T3 COURT LIGHT
candela file 'VUE-2-TT-80L-1-40K.IES'
1 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 0.900, watts per luminaire = 263
mounting height= 14 ft
number locations= 4, number luminaires= 4
kw all locations= 1.1
- 50W LED SW AREA LIGHT
candela file 'PCR-1_T5W_32LC_3_3K.IES'
1 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 0.900, watts per luminaire = 35
mounting height= 14 ft
number locations= 60, number luminaires= 60
kw all locations= 2.1
- 25W RAMADA LIGHT
candela file 'VPF4_4FT_25W_40K_CLP.ies'
168 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 0.900, watts per luminaire = 27
mounting height= 8.5 ft
number locations= 3, number luminaires= 3
kw all locations= 0.1
- 25W CANOPY LIGHT
candela file 'CNC-E01-LED-E1-SQ.ies'
21 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 0.900, watts per luminaire = 25
mounting height= 8.5 ft
number locations= 42, number luminaires= 42
kw all locations= 1.0
- 19W LED BOLLARD
candela file 'rab03691.ies'
15 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 0.900, watts per luminaire = 18
mounting height= 3.6 ft
number locations= 72, number luminaires= 72
kw all locations= 1.3
- GENERIC PORCH LIGHT
candela file 's19050042b-01_11A19DIM_830_IESNA95.IES'
1 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 0.900, watts per luminaire = 11
mounting height= 6.5 ft
number locations= 261, number luminaires= 261
kw all locations= 2.9



PHOTOMETRIC CALCULATIONS



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**PHOTOMETRIC CALCULATION
SHEET. FOR INFORMATION ONLY.**

Professional Engineer
73954
JACOB
BELEFELD
Date Signed: 7/1/2023
Expires: 6/30-24

PROJECT NAME:
SAN TRAVASA BTR
N WHITE AND PARKER RD & W SMITH ENKE RD
PHOTOMETRIC LIGHTING PLAN
WRIGHT ENG.
PROJECT NO: **22615-PH**
DESIGN BY: CDL **PH3**

H:\2022\22615-San Travasa BTR\Photometrics\22615-PH.dwg

CALCULATIONS

DRIVE AISLES & PARKING	BOUNDARY LINE
419 points	419 points
HORIZONTAL FOOTCANDLES	HORIZONTAL FOOTCANDLES
Average 1.11	Average 0.1
Maximum 4.15	Maximum 1.6
Minimum 0.13	Minimum 0.0
Avg:Min 8.56	Avg:Min N/A
Max:Min 31.92	Max:Min N/A
Coef Var 0.76	Coef Var 3.33

WALKWAYS	LANDSCAPE AREAS
1356 points	154 points
HORIZONTAL FOOTCANDLES	HORIZONTAL FOOTCANDLES
Average 1.2	Average 4.7
Maximum 25.5	Maximum 51.7
Minimum 0.1	Minimum 0.1
Avg:Min 12.04	Avg:Min 47.36
Max:Min 255.00	Max:Min 517.00
Coef Var 1.76	Coef Var 2.21

LEGEND

- 263W T3 COURT LIGHT
candela file 'VUE-2-TT-80L-1-40K.IES'
1 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 0.900, watts per luminaire = 263
mounting height= 14 ft
number locations= 4, number luminaires= 4
kw all locations= 1.1
- 50W LED SW AREA LIGHT
candela file 'PCR-1_T5W_32LC_3_3K.IES'
1 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 0.900, watts per luminaire = 35
mounting height= 14 ft
number locations= 60, number luminaires= 60
kw all locations= 2.1
- 25W RAMADA LIGHT
candela file 'VPF4_4FT_25W_40K_CLP.ies'
168 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 0.900, watts per luminaire = 27
mounting height= 8.5 ft
number locations= 3, number luminaires= 3
kw all locations= 0.1
- 25W CANOPY LIGHT
candela file 'CNC-E01-LED-E1-SQ.ies'
21 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 0.900, watts per luminaire = 25
mounting height= 8.5 ft
number locations= 42, number luminaires= 42
kw all locations= 1.0
- 19W LED BOLLARD
candela file 'rab03691.ies'
15 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 0.900, watts per luminaire = 18
mounting height= 3.6 ft
number locations= 72, number luminaires= 72
kw all locations= 1.3
- GENERIC PORCH LIGHT
candela file 's19050042b-01_11A19DIM_830_IESNA95.IES'
11 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 0.900, watts per luminaire = 11
mounting height= 6.5 ft
number locations= 261, number luminaires= 261
kw all locations= 2.9

SHEET PH2 SHEET PH3 SHEET PH4 SHEET PH5

SHEET PH6 SHEET PH7 SHEET PH8 SHEET PH9

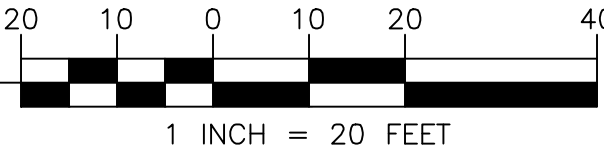
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MATCH LINE 'C' SEE SHEET PH5

MATCH LINE 'D' SEE SHEET PH8

PHOTOMETRIC CALCULATIONS

GRAPHIC SCALE

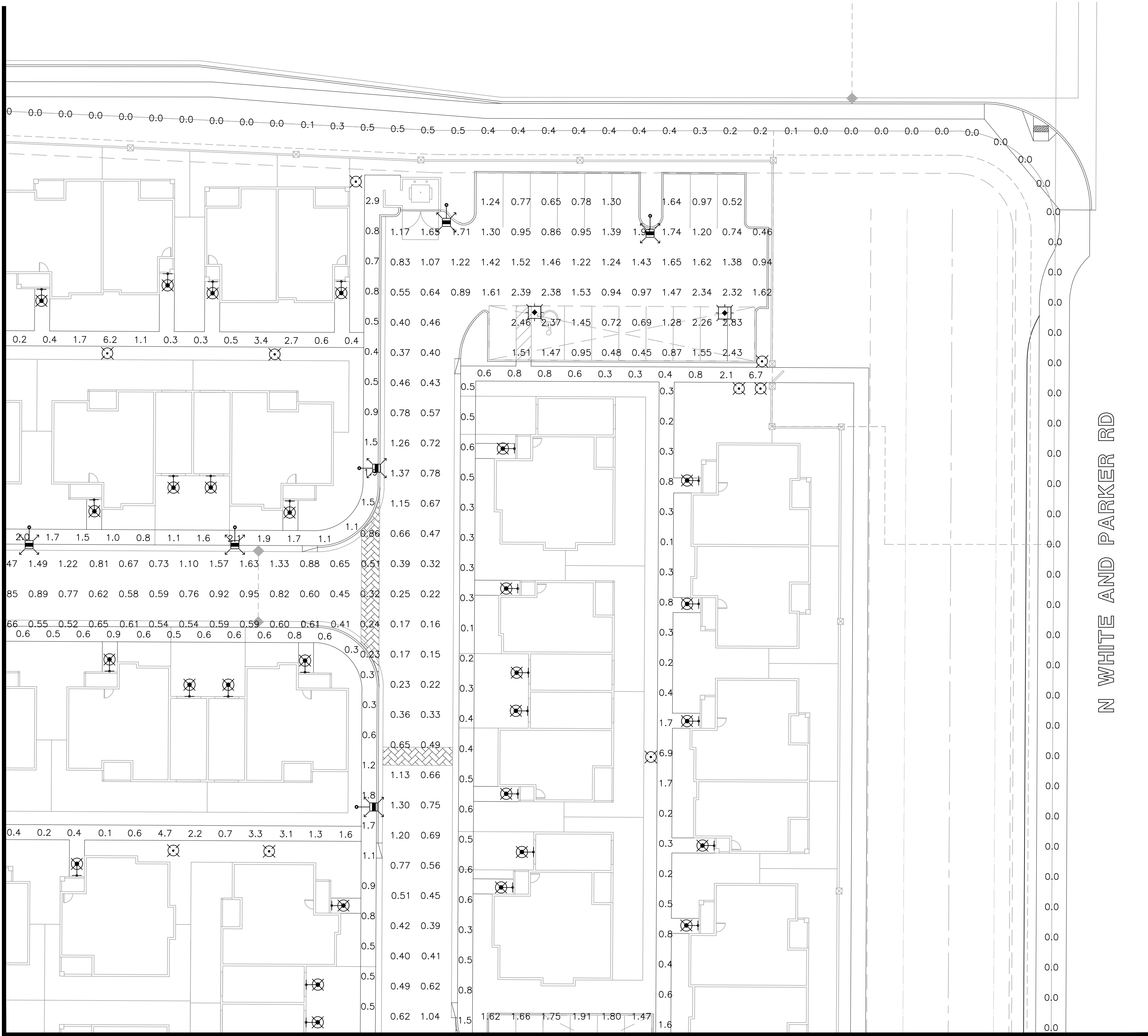


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PHONE 480.497.5829 • FAX 480.497.5807

PHOTOMETRIC CALCULATION
SHEET. FOR INFORMATION ONLY.

PROJECT NAME:
SAN TRAVASA BTR
N WHITE AND PARKER RD & W SMITH ENKE RD
PHOTOMETRIC LIGHTING PLAN
WRIGHT ENG.
PROJECT NO: **22615-PH**
DESIGN BY: CDL **PH4**

MATCH LINE 'C' SEE SHEET PH4



MATCH LINE 'D' SEE SHEET PH9

CALCULATIONS

DRIVE AISLES & PARKING	BOUNDARY LINE
1734 points	419 points
HORIZONTAL FOOTCANDLES	HORIZONTAL FOOTCANDLES
Average 1.11	Average 0.1
Maximum 4.15	Maximum 1.6
Minimum 0.13	Minimum 0.0
Avg:Min 8.56	Avg:Min N/A
Max:Min 31.92	Max:Min N/A
Coef Var 0.76	Coef Var 3.33

WALKWAYS	LANDSCAPE AREAS
1356 points	154 points
HORIZONTAL FOOTCANDLES	HORIZONTAL FOOTCANDLES
Average 1.2	Average 4.7
Maximum 25.5	Maximum 51.7
Minimum 0.1	Minimum 0.1
Avg:Min 12.04	Avg:Min 47.36
Max:Min 255.00	Max:Min 517.00
Coef Var 1.76	Coef Var 2.21

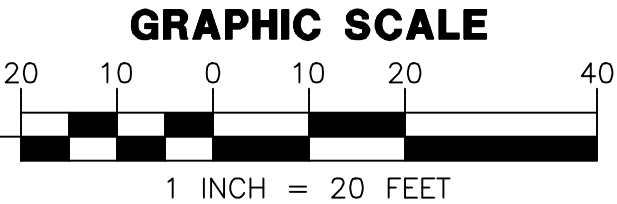
LEGEND

- 263W T3 COURT LIGHT
candela file 'VUE-2-TT-80L-1-40K.IES'
1 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 0.900, watts per luminaire = 263
mounting height= 14 ft
number locations= 4, number luminaires= 4
kw all locations= 1.1
- 50W LED SW AREA LIGHT
candela file 'PCR-1_T5W_32LC_3_3K.IES'
1 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 0.900, watts per luminaire = 35
mounting height= 14 ft
number locations= 60, number luminaires= 60
kw all locations= 2.1
- 25W RAMADA LIGHT
candela file 'VPF4_4FT_25W_40K_CLP.ies'
168 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 0.900, watts per luminaire = 27
mounting height= 8.5 ft
number locations= 3, number luminaires= 3
kw all locations= 0.1
- 25W CANOPY LIGHT
candela file 'CNC-E01-LED-E1-SQ.ies'
21 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 0.900, watts per luminaire = 25
mounting height= 8.5 ft
number locations= 42, number luminaires= 42
kw all locations= 1.0
- 19W LED BOLLARD
candela file 'rab03691.ies'
15 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 0.900, watts per luminaire = 18
mounting height= 3.6 ft
number locations= 72, number luminaires= 72
kw all locations= 1.3
- GENERIC PORCH LIGHT
candela file 's19050042b-01_11A19DIM_830_IESNA95.IES'
1 lamp(s) per luminaire, 1150 lumens per lamp
Light Loss Factor = 0.900, watts per luminaire = 11
mounting height= 6.5 ft
number locations= 261, number luminaires= 261
kw all locations= 2.9

SHEET PH2 SHEET PH3 SHEET PH4 SHEET PH5

SHEET PH6 SHEET PH7 SHEET PH8 SHEET PH9

PHOTOMETRIC CALCULATIONS

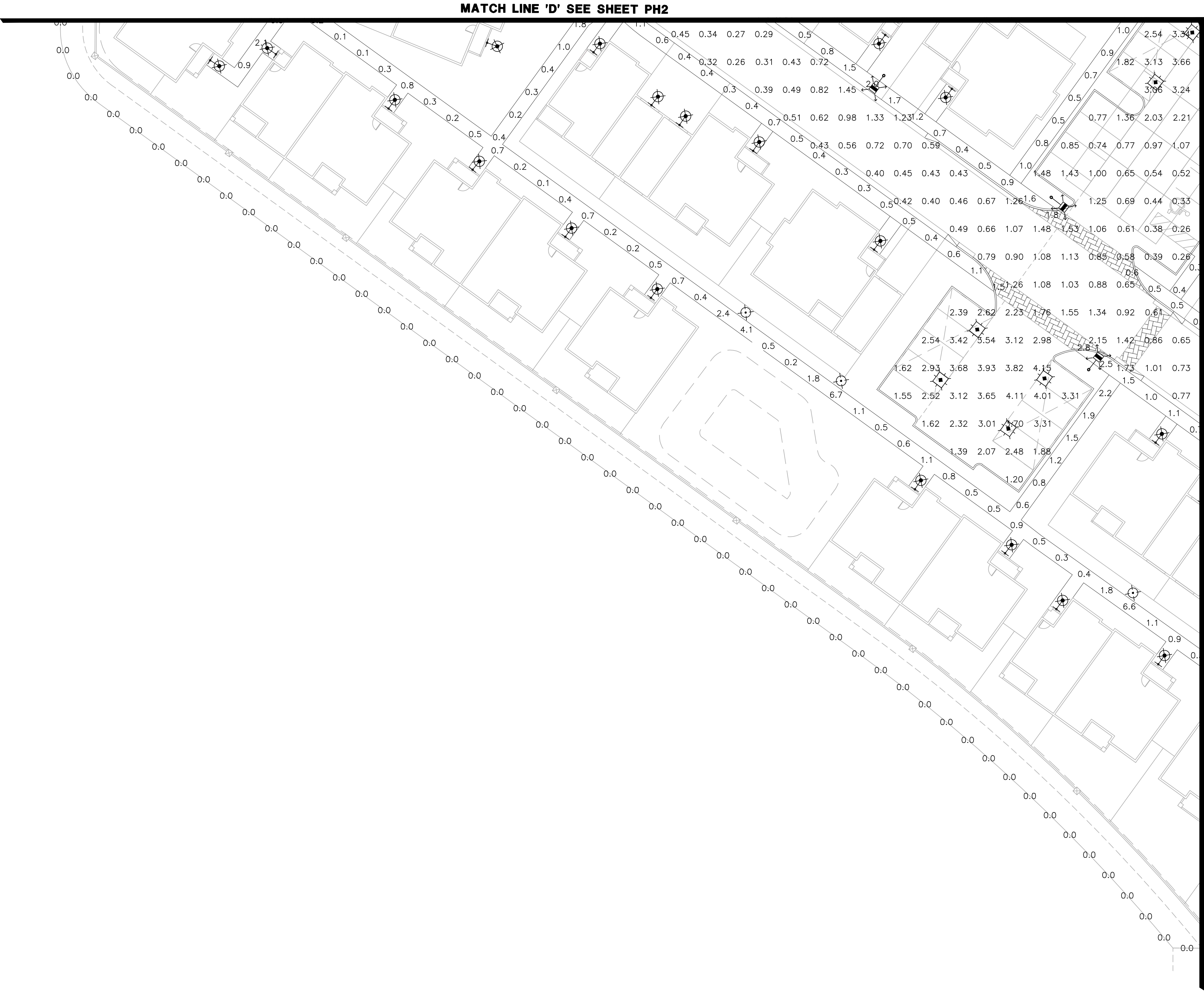


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PHOTOMETRIC CALCULATION
SHEET. FOR INFORMATION ONLY.

PROJECT NAME:
SAN TRAVASA BTR
N WHITE AND PARKER RD & W SMITH ENKE RD
PHOTOMETRIC LIGHTING PLAN
WRIGHT ENG.
PROJECT NO: **22615-PH**
DESIGN BY: CDL **PH5**

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MATCH LINE 'A' SEE SHEET PH7

CALCULATIONS

DRIVE AISLES & PARKING	BOUNDARY LINE
1734 points	419 points
HORIZONTAL FOOTCANDLES	HORIZONTAL FOOTCANDLES
Average 1.11	Average 0.1
Maximum 4.15	Maximum 1.6
Minimum 0.13	Minimum 0.0
Avg:Min 8.56	Avg:Min N/A
Max:Min 31.92	Max:Min N/A
Coef Var 0.76	Coef Var 3.33

WALKWAYS	LANDSCAPE AREAS
1356 points	154 points
HORIZONTAL FOOTCANDLES	HORIZONTAL FOOTCANDLES
Average 1.2	Average 4.7
Maximum 25.5	Maximum 51.7
Minimum 0.1	Minimum 0.1
Avg:Min 12.04	Avg:Min 47.36
Max:Min 255.00	Max:Min 517.00
Coef Var 1.76	Coef Var 2.21

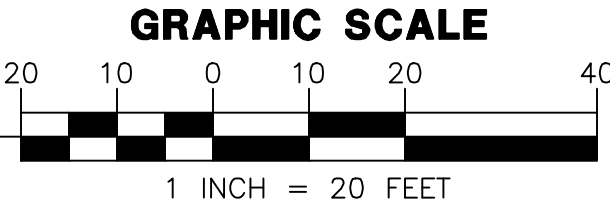
LEGEND

- 263W T3 COURT LIGHT
candela file 'VUE-2-TT-80L-1-40K.IES'
1 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 0.900, watts per luminaire = 263
mounting height= 14 ft
number locations= 4, number luminaires= 4
kw all locations= 1.1
- 50W LED SW AREA LIGHT
candela file 'PCR-1-T5W_32LC_3_3K.IES'
1 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 0.900, watts per luminaire = 35
mounting height= 14 ft
number locations= 60, number luminaires= 60
kw all locations= 2.1
- 25W RAMADA LIGHT
candela file 'VPF4_4FT_25W_40K_CLP.ies'
168 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 0.900, watts per luminaire = 27
mounting height= 8.5 ft
number locations= 3, number luminaires= 3
kw all locations= 0.1
- 25W CANOPY LIGHT
candela file 'CNC-E01-LED-E1-SQ.ies'
21 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 0.900, watts per luminaire = 25
mounting height= 8.5 ft
number locations= 42, number luminaires= 42
kw all locations= 1.0
- 19W LED BOLLARD
candela file 'rab03691.ies'
15 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 0.900, watts per luminaire = 18
mounting height= 3.6 ft
number locations= 72, number luminaires= 72
kw all locations= 1.3
- GENERIC PORCH LIGHT
candela file 's19050042b-01 11A19DIM 830_IESNA95.IES'
1 lamp(s) per luminaire, 1150 imits) lumens per lamp
Light Loss Factor = 0.900, watts per luminaire = 11
mounting height= 6.5 ft
number locations= 261, number luminaires= 261
kw all locations= 2.9

SHEET PH2 SHEET PH3 SHEET PH4 SHEET PH5

SHEET PH6 SHEET PH7 SHEET PH8 SHEET PH9

PHOTOMETRIC CALCULATIONS

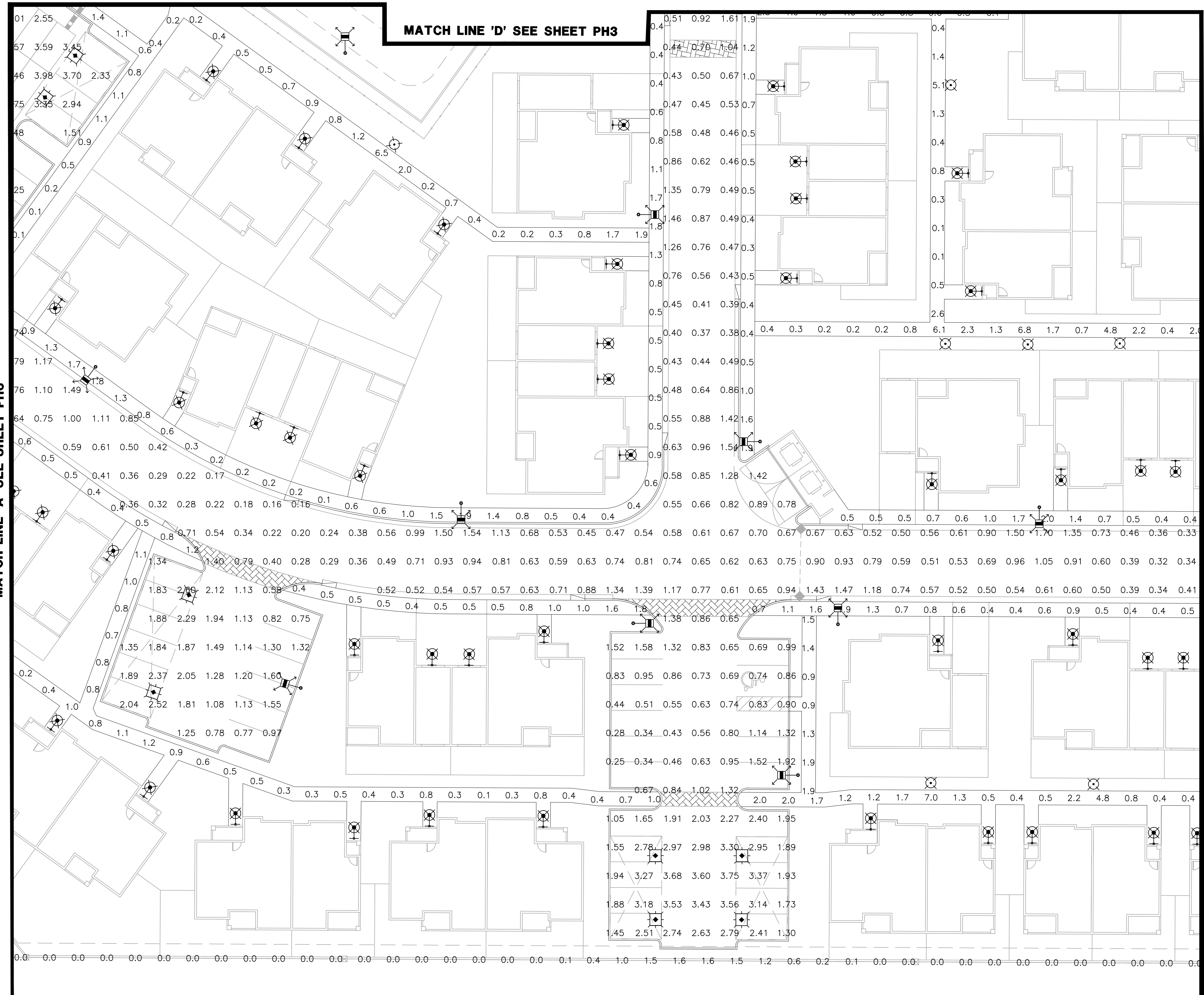


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**PHOTOMETRIC CALCULATION
SHEET. FOR INFORMATION ONLY.**

PROJECT NAME:
SAN TRAVASA BTR
N WHITE AND PARKER RD & W SMITH ENKE RD
PHOTOMETRIC LIGHTING PLAN
WRIGHT ENG.
PROJECT NO: **22615-PH**
DESIGN BY: CDL **PH6**

Professional Engineer
73954
JACOB
BELEFELD
Date Signed: 7/1/2022
Expires 6/30-24



CALCULATIONS

DRIVE AISLES & PARKING	BOUNDARY LINE
1734 points	419 points
HORIZONTAL FOOTCANDLES	HORIZONTAL FOOTCANDLES
Average 1.11	Average 0.1
Maximum 4.15	Maximum 1.6
Minimum 0.13	Minimum 0.0
Avg:Min 8.56	Avg:Min N/A
Max:Min 31.92	Max:Min N/A
Coef Var 0.76	Coef Var 3.33

WALKWAYS	LANDSCAPE AREAS
1356 points	154 points
HORIZONTAL FOOTCANDLES	HORIZONTAL FOOTCANDLES
Average 1.2	Average 4.7
Maximum 25.5	Maximum 51.7
Minimum 0.1	Minimum 0.1
Avg:Min 12.04	Avg:Min 47.36
Max:Min 255.00	Max:Min 517.00
Coef Var 1.76	Coef Var 2.21

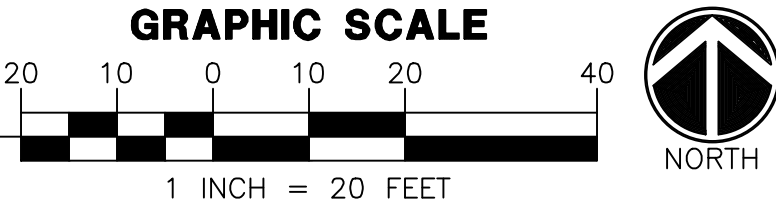
LEGEND

- 263W T3 COURT LIGHT
candela file 'VUE-2-TT-80L-1-40K.IES'
1 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 0.900, watts per luminaire = 263
mounting height= 14 ft
number locations= 4, number luminaires= 4
kw all locations= 1.1
- 50W LED SW AREA LIGHT
candela file 'PCR-1_T5W_32LC_3_3K.IES'
1 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 0.900, watts per luminaire = 35
mounting height= 14 ft
number locations= 60, number luminaires= 60
kw all locations= 2.1
- 25W RAMADA LIGHT
candela file 'VPF4_4FT_25W_40K_CLP.ies'
168 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 0.900, watts per luminaire = 27
mounting height= 8.5 ft
number locations= 3, number luminaires= 3
kw all locations= 0.1
- 25W CANOPY LIGHT
candela file 'CNC-E01-LED-E1-SQ.ies'
21 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 0.900, watts per luminaire = 25
mounting height= 8.5 ft
number locations= 42, number luminaires= 42
kw all locations= 1.0
- 19W LED BOLLARD
candela file 'rab03691.ies'
15 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 0.900, watts per luminaire = 18
mounting height= 3.6 ft
number locations= 72, number luminaires= 72
kw all locations= 1.3
- GENERIC PORCH LIGHT
candela file 's19050042b-01_11A19DIM_830_IESNA95.IES'
1 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 0.900, watts per luminaire = 11
mounting height= 6.5 ft
number locations= 261, number luminaires= 261
kw all locations= 2.9

SHEET PH2 SHEET PH3 SHEET PH4 SHEET PH5

SHEET PH6 SHEET PH7 SHEET PH8 SHEET PH9

PHOTOMETRIC CALCULATIONS



WRIGHT
engineering corporation
ELECTRICAL ENGINEERING AND DESIGN
165 EAST CHILTON DRIVE • CHANDLER, ARIZONA 85225
PHONE 480.497.5829 • FAX 480.497.5807

PHOTOMETRIC CALCULATION
SHEET. FOR INFORMATION ONLY.

Professional Engineer
73954
JACOB
BELEFELD
Date Signed: 7/1/2023
Expires 6/30-24

PROJECT NAME:
SAN TRAVASA BTR
N WHITE AND PARKER RD & W SMITH ENKE RD
PHOTOMETRIC LIGHTING PLAN
WRIGHT ENG.
PROJECT NO: **22615-PH**
DESIGN BY: CDL **PH7**

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DRIVE AISLES & PARKING	BOUNDARY LINE
1734 points	419 points
HORIZONTAL FOOTCANDLES	HORIZONTAL FOOTCANDLES
Average 1.11	Average 0.1
Maximum 4.15	Maximum 1.0
Minimum 0.13	Minimum 0.0
Avg:Min 3.56	Avg:Min N/A
Max:Min 31.92	Max:Min N/A
Coef Var 0.76	Coef Var 3.33

WALKWAYS		LANDSCAPE AREAS	
1356 points		154 points	
HORIZONTAL	FOOTCANDLES	HORIZONTAL	FOOTCANDLES
Average	1.2	Average	4.7
Maximum	25.5	Maximum	0.7
Minimum	0.1	Minimum	0.1
Avg:Min	12.04	Avg:Min	2.36
Max:Min	255.00	Max:Min	517.00
Coef Var	1.76	Coef Var	2.21

 263W T3 COURT LIGHT
candela file "VUE-2-TT-80L-1-40K.IES"
1 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 0.900, watts per luminaire = 263
mounting height = 4 ft
number locations = 4 number luminaires = 4
kw all locations = 1.1

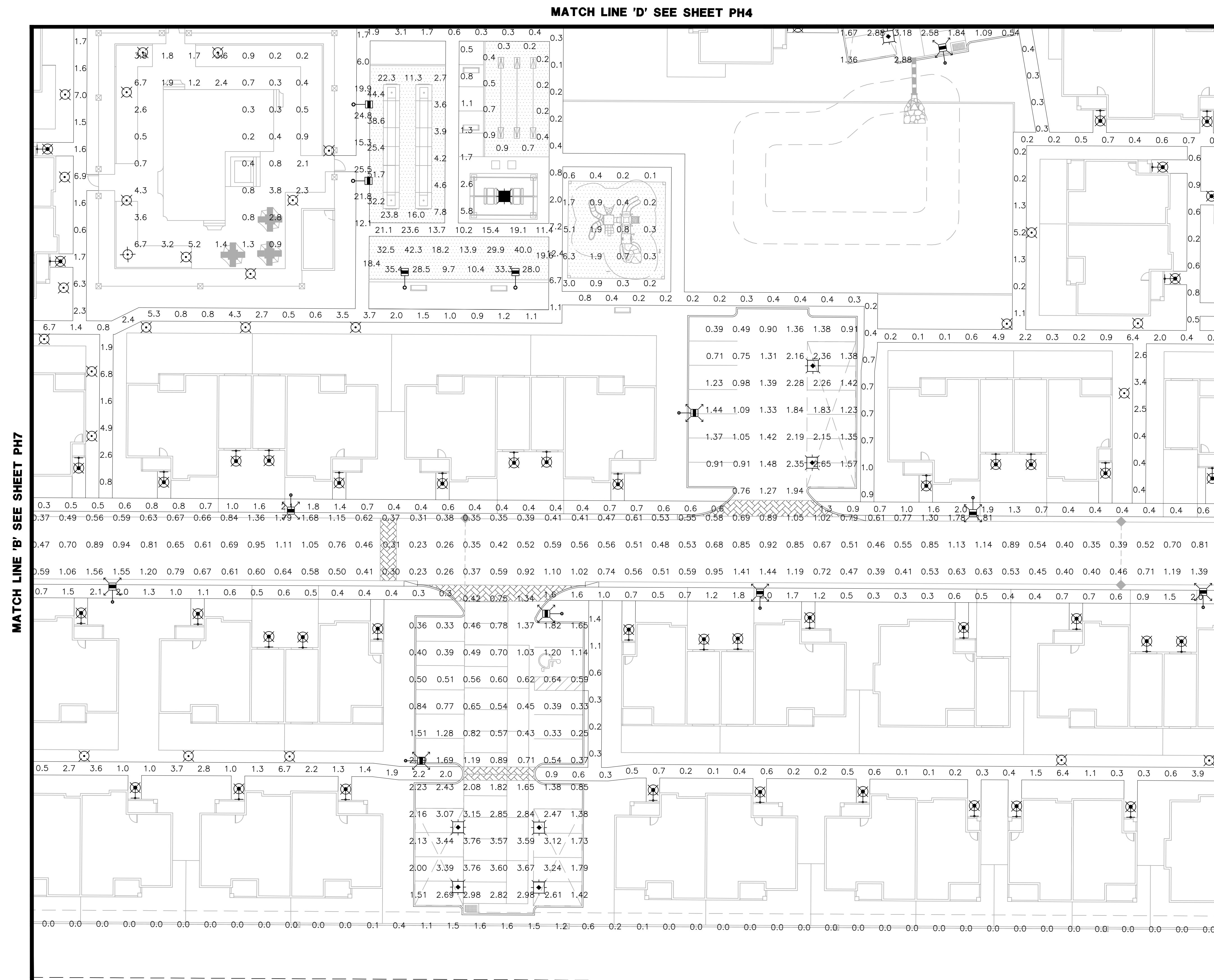
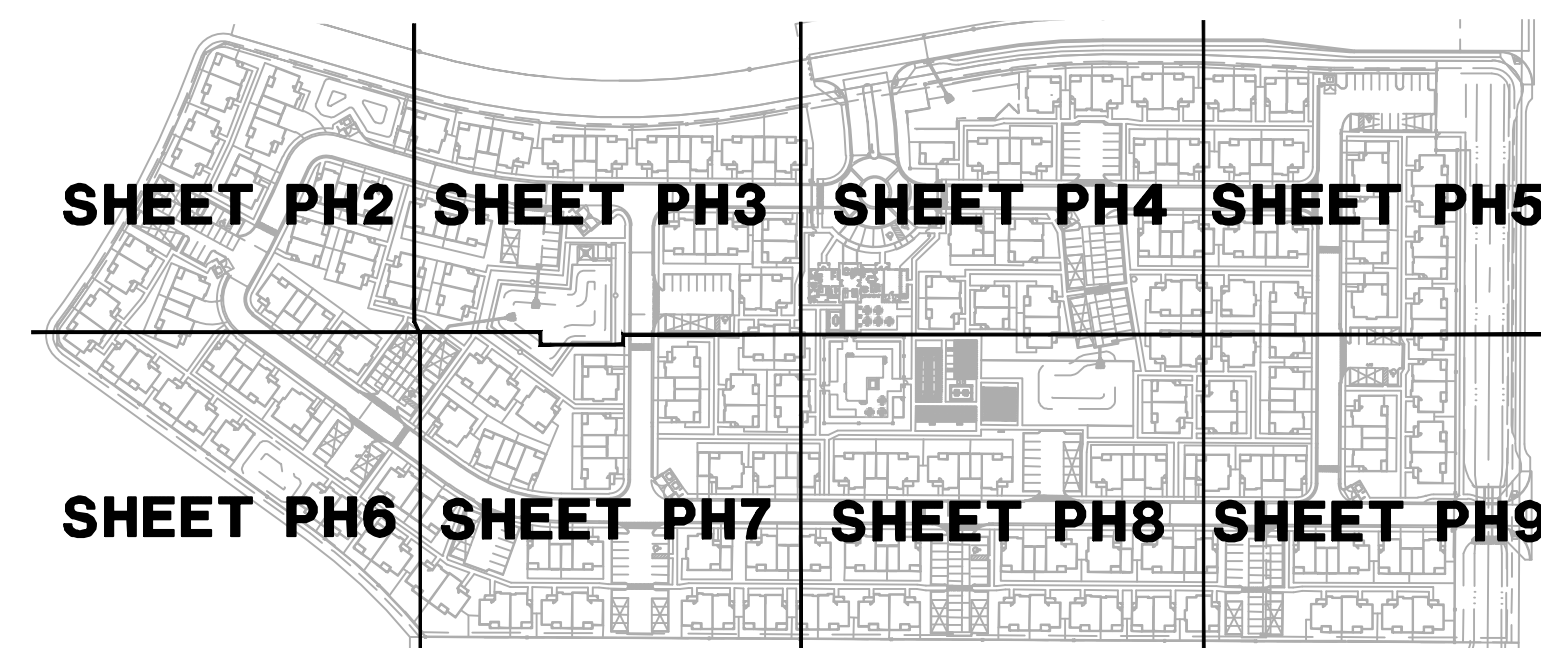
 50W LED 5W AREA LIGHT
candela file "PG1-1-T5W_32LC_3_K.IES"
1 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 0.900, watts per luminaire = 35
mounting height = 14 ft
number locations = 60, number luminaires = 60
kw all locations = 2.1

 25W RAMADA LIGHT
candela file "VP4-4FT_25W_40K_CLP.ies"
168 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 0.900, watts per luminaire = 27
mounting height = 8.5 ft
number locations = 3, number luminaires = 3
kw all locations = 0.1

 25W CANOPY LIGHT
candela file "CNC-E01-LED-E1-SQ.ies"
21 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 0.900, watts per luminaire = 25
mounting height = 8.5 ft
number locations = 42, number luminaires = 42
kw all locations = 1.0

 19W LED BOLLARD
candela file "rb03691.ies"
15 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 0.900, watts per luminaire = 18
mounting height = 3.6 ft
number locations = 72, number luminaires = 72
kw all locations = 1.3

 GENERIC PORCH LIGHT
candela file "s19050042b-01_11A19DIM_830_IESNA95.IES"
1 lamp(s) per luminaire, 1150 initial lumens per lamp
Light Loss Factor = 0.900, watts per luminaire = 11
mounting height = 6.5 ft
number locations = 21, number luminaires = 21
kw all locations = 2.9

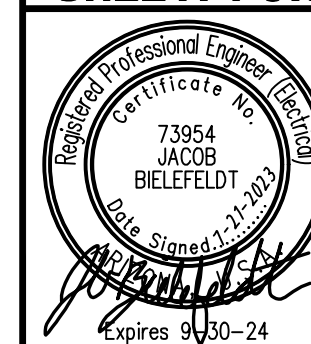


GRAPHIC SCALE

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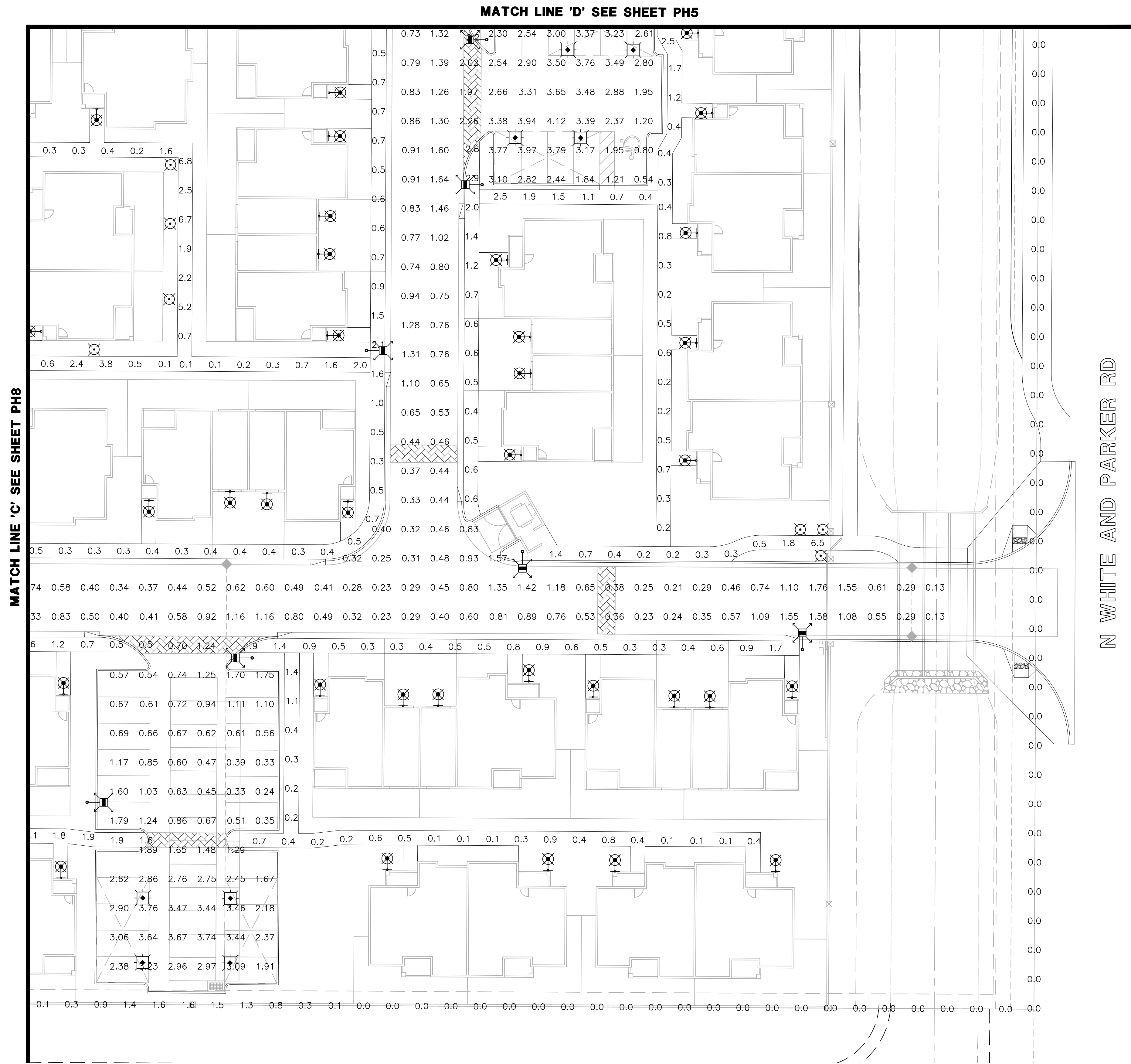
1 INCH = 20 FEET

NORTH



PROJECT NAME:
SAN TRAVASA BTR
N WHITE AND PARKER RD & W SMITH ENKE RD
PHOTOMETRIC LIGHTING PLAN
WRIGHT ENG.
PROJECT NO: **22615-PH**

DESIGN BY: CDL **PH8**



CALCULATIONS

DRIVE AISLES & PARKING	BOUNDARY LINE
1734 points	419 points
HORIZONTAL FOOTCANDLES	HORIZONTAL FOOTCANDLES
Average 1.11	Average 0.1
Maximum 4.15	Maximum 1.6
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Coef Var 1.76	Coef Var 2.21

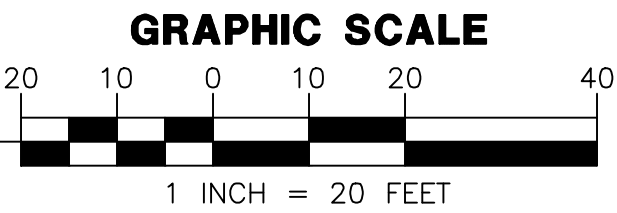
LEGEND

- 263W T3 COURT LIGHT
candela file 'VUE-2-TT-80L-1-40K.IES'
1 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 0.900, watts per luminaire = 263
mounting height= 14 ft
number locations= 4, number luminaires= 4
kw all locations= 1.1
- 50W LED SW AREA LIGHT
candela file 'PCR-1_T5W_32LC_3_3K.IES'
1 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 0.900, watts per luminaire = 35
mounting height= 14 ft
number locations= 60, number luminaires= 60
kw all locations= 2.1
- 25W RAMADA LIGHT
candela file 'VPF4_4FT_25W_40K_CLP.ies'
168 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 0.900, watts per luminaire = 27
mounting height= 8.5 ft
number locations= 3, number luminaires= 3
kw all locations= 0.1
- 25W CANOPY LIGHT
candela file 'CNC-E01-LED-E1-SQ.ies'
21 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 0.900, watts per luminaire = 25
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kw all locations= 1.0
- 19W LED BOLLARD
candela file 'rab03691.ies'
15 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 0.900, watts per luminaire = 18
mounting height= 3.6 ft
number locations= 72, number luminaires= 72
kw all locations= 1.3
- GENERIC PORCH LIGHT
candela file 's19050042b-01_11A19DIM_830_IESNA95.IES'
1 lamp(s) per luminaire, 1150 lumens per lamp
Light Loss Factor = 0.900, watts per luminaire = 11
mounting height= 6.5 ft
number locations= 261, number luminaires= 261
kw all locations= 2.9

SHEET PH2 SHEET PH3 SHEET PH4 SHEET PH5

SHEET PH6 SHEET PH7 SHEET PH8 SHEET PH9

PHOTOMETRIC CALCULATIONS



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PHONE 480.497.5829 • FAX 480.497.5807

**PHOTOMETRIC CALCULATION
SHEET. FOR INFORMATION ONLY.**

PROJECT NAME:
SAN TRAVASA BTR
N WHITE AND PARKER RD & W SMITH ENKE RD
PHOTOMETRIC LIGHTING PLAN
WRIGHT ENG.
PROJECT NO: **22615-PH**

DESIGN BY: CDL **PH9**

Professional Engineer
73954
JACOB
BELEFELD
Date Signed: 7/1/2023
Expires 6/30-24



VISION VPF4

Vandal Resistant
VPF4 Series LED

Fixture Type	Date
Job Name	Approved By
Catalog Number	

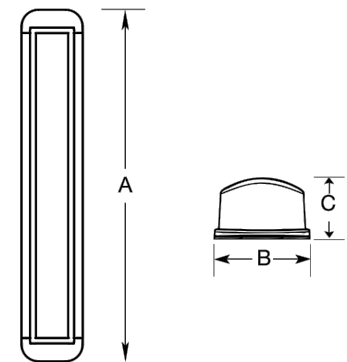
SPECIFICATIONS



Description	The Vision VPF4 series features an all aluminum, ligature resistant construction which allows it to be used in nearly any environmental condition. Designed in conjunction with an ophthalmologist, the polycarbonate lens provides complete control of glare and LED image while maintaining the high efficiency of clear optical material. The Vision VPF4 series can be row mounted to any length. Natatorium finish is standard for all versions of this fixture.
Housing	Marine grade heat treated extruded aluminum. Finished with Super Durable Corrosion Resistant powder coat (SDCR) that meets AAMA 2605 high performance specification, providing superior UV durability and corrosion resistance. Salt spray test: 4,000 hours.
Lens	Extruded UV stabilized polycarbonate with integral prisms. Maximum wall thickness 0.160". Secured to housing with die cast aluminum clamps and stainless steel TORX® head screws.
End Caps	Die cast marine grade aluminum with conduit knockouts that are visible from interior of end cap.
Drivers	Dimming to 1%, 10% or Programmable Lumen Output driver options. Non-Dimming Driver is also available.
LED	Samsung LM561B+ series @ 2700K, 3000K, 3500K, 4000K, or 5000K and 82 CRI wired in parallel-series. L ₇₀ projected life of over 130,000 hours at 50°C.
UL Listing	U.L., C.U.L. Damp Location Listing standard, Wet Location Listing optional.
Buy American	Luminaire LED, LLC products are assembled in the USA. Our products meet the Buy America(n) government procurement requirements under FAR, DFARS, and DOT. Please refer to www.acuitybrands.com/buy-american for additional information.
Warranty	Lifetime warranty against vandalism. Luminaire LED will repair or replace any fixture damaged due to vandalism for the lifetime of the installation. 10-year warranty on LED boards against operational defects. Tested in accordance with LM-80.
Note	Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

DIMENSIONAL DATA

	A	B	C
VPF4 1FT	15.50	4.35	2.70
VPF4 2FT	26.10	4.35	2.70
VPF4 3FT	37.88	4.35	2.70
VPF4 4FT	49.69	4.35	2.70



Luminaire LED One Lithonia Way, Conyers GA 30012 | 1.800.705.SERV (7378) | www.luminaireled.net
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LUMINAIRE-LED-VISION-VPF4-LED Rev. 07/01/21
Page 1 of 5

VISION VPF4

Vandal Resistant
VPF4 Series LED

ORDERING INFORMATION

Example: VPF4 4FT MIN1 40W 27K 120 CLP WHT

Series*	Size (Nominal)**	Drivers*	Wattage (Nominal)	Lumens (For PRD Only)	CCT*
VPF4 Vandal Resistant 4" Wide Watertight Luminaire	1FT	MIN1** Dimming to 1%	5W 20W 40W	500LM - 5800LM - Lumens available in 100LM increments	27K - 2200K
	2FT	MIN1** Dimming to 10%	10W 20W 40W		27K - 2200K
	3FT	NONDA Non-Dimming Driver	15W 30W	Lumens required if PRD driver chosen	35K - 3500K
	4FT	PRD** Driver Programmed to Specific Lumen Output, Consult Factory			40K - 4000K
		PRD not available with Watertight. PRD standard @ 120 dimming to 1%.			50K - 5000K

Voltage*	Lens*	Finish*
120 Volt	CLP - Clear Polymatic	BLK - Black
277	OP - Oval	WHT - White
MINOLT 120-277 Volt		BRZ - Bronze
347		GRY - Gray
		SIL - Silver
		CUST - Custom Color, Consult Factory
		HALTBD - Ral Paint finishes
		HALTBD for pricing only. Replace with applicable RAL call out when ready to order. See the file: RALCOLORS for available options

*Required

OPTIONS

Emergency*		
EMBS10 ¹ Self contained, 90 minute emergency battery pack. 0°C (32°F) to 55°C (131°F). 1200 lumens	EMBS20R ^{1,7} Remote mounted micro inverter that will operate a 25W maximum load for 90 min. 0°C (32°F) to 45°C (113°F).	
EMBS10ST ¹ Self testing, self contained, 90 minute emergency battery pack. 0°C (32°F) to 55°C (131°F). Meets CA Title 20 Standards. 1000 lumens	EMBS125R ¹ Remote inverter that will operate a maximum 125W load for 90 min. 20°C (68°F) to 30°C (86°F).	
EMBS10ST ¹ Self testing, self contained, 90 minute emergency battery pack. 0°C (32°F) to 55°C (131°F). Meets CA Title 20 Standards. 1000 lumens	EMBS250R ¹ Remote inverter that will operate a 250W maximum load for 90 min. 20°C (68°F) to 30°C (86°F).	
EMBS10T20 ¹ Self contained, 90 minute emergency battery pack. 0°C (32°F) to 55°C (131°F). Meets CA Title 20 standards. 1200 lumens	EMBS375R ¹ Remote inverter that will operate a 375W maximum load for 90 min. 20°C (68°F) to 30°C (86°F).	

Pendant Type/Length	Back Box	Environment	Fusing	Photocell	Sensors
Rigid Stems RG... ¹¹ (12" - 96") Chair in 12" increments up to 96"	CCR Corner mounted back box	WL... ¹¹ Wet Location	CLR... ¹¹ Fuse and Fuse Holder	PC... ¹¹ Photoelectric Switch	OC08T... ¹¹ Bluetooth connected microwave occupancy sensor mounted behind the lens. All LED board sensed to dim to 50%, 40%, 30%, 20%, or 10%, field selectable low levels.

Mounting Hardware	Hardware
DRPCP... ¹¹ Aluminum drip cap finished with white polyester powder coat to be used when pendant mounted	PHSC Phillips Head instead of TORX® head

Ordering Notes

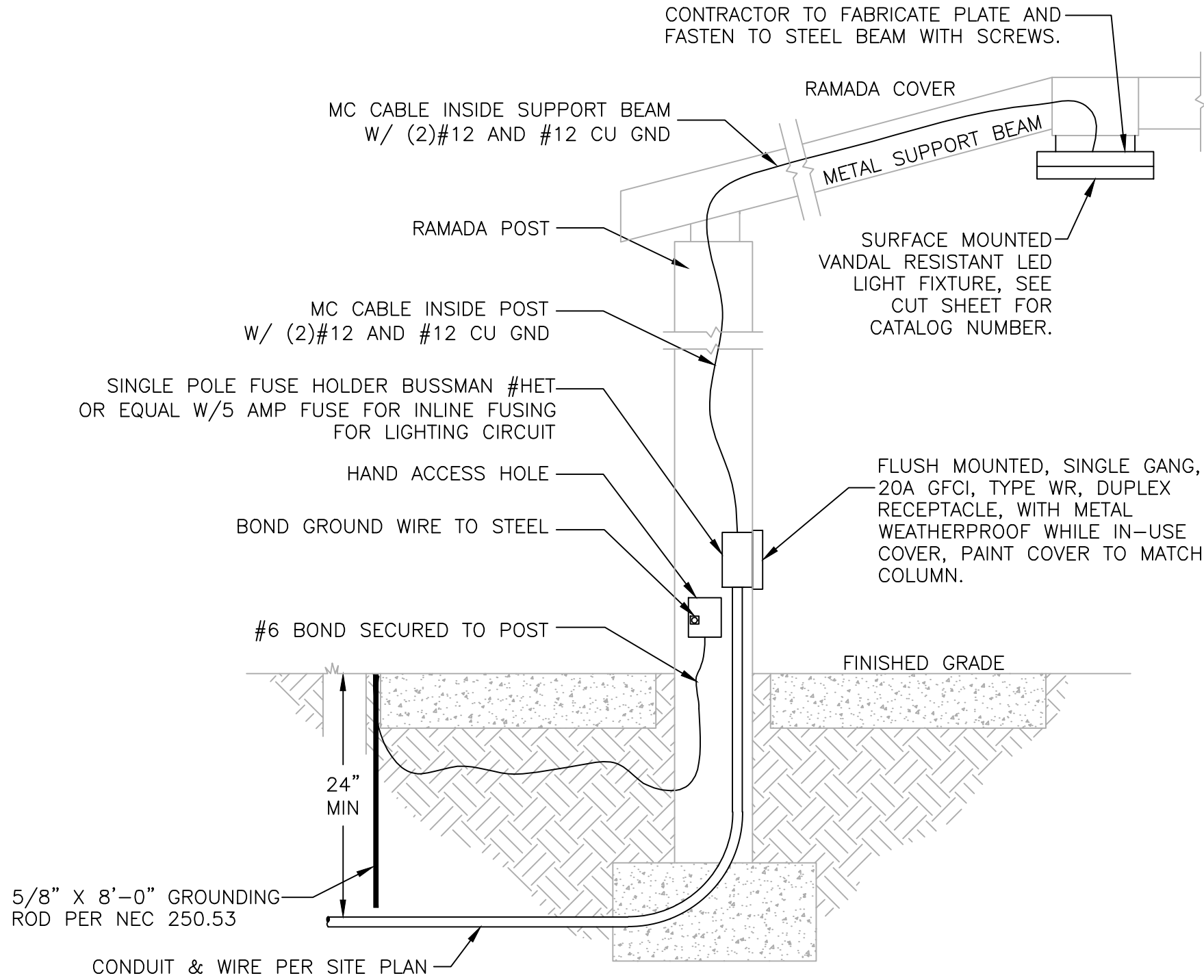
- See Size and Wattage Chart.
- Not available with 5W or 10W.
- Not available with 1FT, 2FT or 3FT.
- Not available with 347.
- Not available with 1FT.
- Not available with MINOLT.
- Not available with CCR.
- WL and DRPCP is required with Rigid Stems (RG...).
- Not available with MINOLT or 347.
- Not available with any Emergency Battery Pack.

Accessories: Order an separate catalog number.

TSD TORX® Screwdriver Bit
Initial shipment includes one (1) TSD per fixture

Luminaire LED One Lithonia Way, Conyers GA 30012 | 1.800.705.SERV (7378) | www.luminaireled.net
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LUMINAIRE-LED-VISION-VPF4-LED Rev. 07/01/21
Page 2 of 5



3B - RAMADA LIGHT DETAIL

NO SCALE

BLED18Y

RAB

BLED18Y

RAB



LED bollard with architectural quality and strength at an affordable price point. Cylindrical post with round head. Available in 4 light pattern configurations including 360° (24W), 270° (18W), 180° (12W optional) & 90° (12W standard).
Color: Bronze Weight: 18.6 lbs

Project:	Type:
Prepared By:	Date:

Driver Info	LED Info
Type Constant Current	Watts 18W
120V 0.24A	Color Temp 3000K (Warm)
208V 0.18A	Color Accuracy 84 CRI
240V 0.15A	L70 Lifespan 100,000 Hours
277V 0.12A	Lumens 1,593
Input Watts 17.00W	Efficacy 93.7 lm/W

Technical Specifications

Listings

UL Listed:

Suitable for wet locations. Suitable for mounting within 4 ft. (1.2m) of the ground.

IESNA LM-79 & IESNA LM-80 Testing:

RAB LED luminaires and LED components have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80.

DLC Listed:

This product is on the Design Lights Consortium (DLC) Qualified Products List and is eligible for rebates from DLC Member Utilities. DLC Product Code: P983EN99

LED Characteristics

LEDs:

Long-life, high-efficiency, surface-mount LEDs

Color Consistency:

5-step MacAdam Ellipse binning to achieve consistent fixture-to-fixture color

Color Stability:

LED color temperature is warranted to shift no more than 200K in color temperature over a 5-year period

Color Uniformity:

RAB's range of Correlated Color Temperature follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2017

Performance

Lifespan: 100,000-Hour LED lifespan based on IES LM-80 results and TM-21 calculations

Optical

BUG Ratings:

B1 U3 G2

Construction

Cold Weather Starting:

Minimum starting temperature is -40°C (-40°F)

Thermal Management:

Cast aluminum Thermal Management system for optimal heat sinking. The BLED is designed for cool operation, maximum efficiency and long life by minimizing LED junction temperature.

Housing:

Die-cast aluminum with extruded aluminum post

Lens:

Frosted vandal resistant polycarbonate

Reflector:

Vacuum-metallized polycarbonate

Technical Specifications (continued)

Construction

Mounting:

Four (4) anchor bolts provided for concrete pad mounting. Internal base support has leveling screws.

Gaskets:

High-temperature silicone gaskets seal out moisture

Anchor Bolt:

Replaces up to 50W Metal Halide

Finish:

Our environmentally friendly polyester powder coatings are formulated for high-durability and long-lasting color

Green Technology:

Mercury and UV free. RoHS-compliant components.

Other

Patents:

The design of BLED is protected by patents in US, Canada & China

Replacement:

Replaces up to 50W Metal Halide

Warranty:

RAB warrants that our LED products will be free from defects in materials and workmanship for a period of five (5) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish. RAB's warranty is subject to all terms and conditions found at rablighting.com/warranty.

Buy American Act Compliance:

RAB values USA manufacturing! Upon request, RAB may be able to manufacture this product to be compliant with the Buy American Act (BAA). Please contact customer service to request a quote for the product to be made BAA compliant.

Electrical

Driver:

Constant Current, Class 2, 100-277V, 50/60 Hz, 4kV Surge Protection, 700mA, 120V: 0.24A, 208V: 0.18A, 240V: 0.15A, 277V: 0.12A

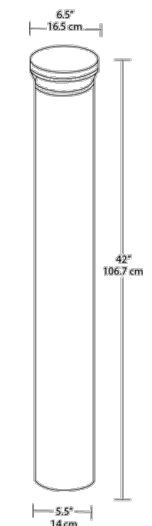
THD:

6.5% at 120V, 10.4% at 277V

Power Factor:

99.5% at 120V, 89.7% at 277V

Dimensions



Features

Patented base mount design for super sturdy installation
Durable construction and frosted vandal-resistant polycarbonate lens
4 configurations to provide 360°(24W), 270°(18W), 180°(12W) or 90°(12W) lighting pattern
Precision-engineered optics deliver maximum downward lighting without glare
Four leveling screws provided for easy installation
100,000-hour LED lifespan

Ordering Matrix

Family	Wattage	Color Temp	Finish	Distribution	Voltage	Dimming	Backup
BLED18	18	Y	-	-	-	-	-
	12 = 12W 18 = 18W 24 = 24W	Blank = 5000K (Cool) N = 4000K (Neutral) Y = 3000K (Warm)	Blank = Bronze W = White K = Black	Blank = Standard 180 = 180 degrees (12W only)	Blank = No Option (120-277V) /480 = 480V (24W only)	Blank = None (Standard) /D10 = 0-10V Dimming	Blank = No Battery Backup /E = Battery Backup (24W only) /EC = Battery Backup Cold Weather (24W only)

Need help? Tech help line: (888) 722-1000 Email: custserv@rablighting.com Website: www.rablighting.com
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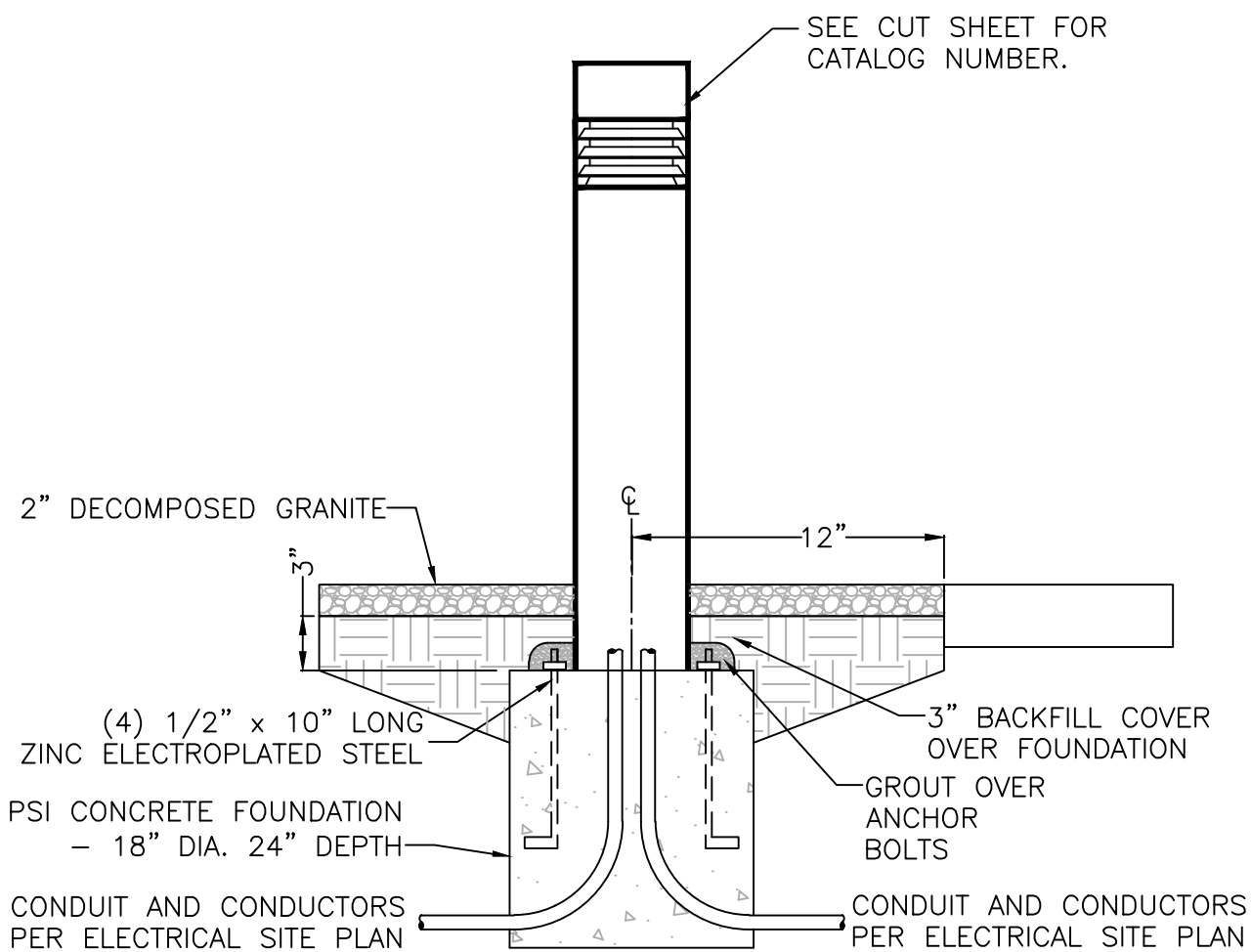
Page 1 of 2

4A - BOLLARD LIGHT

Page 2 of 2

4B - BOLLARD LIGHT DETAIL

NO SCALE



WRIGHT
engineering corporation
ELECTRICAL ENGINEERING AND DESIGN
165 EAST CHILTON DRIVE • CHANDLER, ARIZONA 85225
PHONE 480.497.5829 • FAX 480.497.5807

PHOTOMETRIC CALCULATION SHEET. FOR INFORMATION ONLY.

Professional Engineer
73954
JACOB
BIELEFELD
Date Signed: 2/1/2024
Expires: 2/1/26

ARIZONA BLUE STAKE
CALL TWO WORKING DAYS
BEFORE YOU DIG
Dial 811 or
602-263-1100
1-800-STAKE-IT
(OUTSIDE MARICOPA COUNTY)

PROJECT NAME:
SAN TRAVASA BTR
N WHITE AND PARKER RD & W SMITH ENKE RD
PHOTOMETRIC LIGHTING PLAN
WRIGHT ENG.
PROJECT NO: **22615-PH**
DESIGN BY: CDL **PH11**

Need help? Tech help line: (888) 722-1000 Email: custserv@rablighting.com Website: www.rablighting.com
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SPECIFICATIONS

Certifications/Qualifications
www.kichler.com/warranty

Dimensions	
Base Backplate	5.00 DIA
Extension	5.75"
Weight	1.05 LBS
Height from center of Wall opening (Spec Sheet)	5.25"
Height	8.25"
Width	5.00"

Light Source	
Lamp Included	Not Included
Lamp Type	A19
Light Source	Incandescent
Max or Nominal Watt	60W
# of Bulbs/LED Modules	1
Socket Type	Medium
Socket Wire	105

Mounting/Installation	
Interior/Exterior	Exterior
Location Rating	Wet
Mounting Style	Wall Mount

FIXTURE ATTRIBUTES

Housing	
Diffuser Description	Clear
Primary Material	ALUMINUM

Product/Ordering Information	
SKU	9611BK
Finish	Black
Style	Traditional
UPC	783927961158

Finish Options

- ☐ Black
- ☐ Olde Bronze
- ☐ Stainless Steel
- ☐ Tannery Bronze



ALSO IN THIS FAMILY

Project Name:	Type:
Part Number:	Date:



Value Select A Lamp Family

FEATURES

- Suitable to replace 40W, 60W, 75W, 100W Incandescent
- Comfortable diffused light
- Smooth dimming with existing dimmers*
- Suitable for use in damp locations
- Operating temperature: -4°F / -20°C to +95°F / +35°C
- Rated Lifetime (L70): 25,000hrs
- 3 year limited warranty



SPECIFICATIONS															
Product	Model	Equiv. W	Wattage (W)	CCT	Lumens	Efficacy (lm/W)	Input Voltage	Beam Angle	CRI	Dim.*	Power Factor	Base	Fixture Rating	Lifetime (L70 hrs)	Cert.
97985	6A19DIM/827/R	40W	40W	2700K	480	80	120V	220°	82	Yes	0.9	E26	Non-Enclosed	25,000	ES
97986	6A19DIM/830/R	40W	6	3000K	480	80	120V	220°	82	Yes	0.9	E26	Non-Enclosed	25,000	ES
98011	8A19DIM/827/R	60W	8	2700K	800	100	120V	220°	82	Yes	0.9	E26	Non-Enclosed	25,000	ES
98012	8A19DIM/830/R	60W	8	3000K	800	100	120V	220°	82	Yes	0.9	E26	Non-Enclosed	25,000	ES
98013	8A19DIM/840/R	60W	8	4000K	800	100	120V	220°	82	Yes	0.9	E26	Non-Enclosed	25,000	ES
97908	9A19DIM/827/GU24/R	60W	9	2700K	800	89	120V	240°	82	Yes	0.9	GU24	Enclosed	25,000	ES
97909	9A19DIM/830/GU24/R	60W	9	3000K	820	91	120V	240°	82	Yes	0.9	GU24	Enclosed	25,000	ES
97910	9A19DIM/840/GU24/R	60W	9	4000K	860	96	120V	240°	82	Yes	0.9	GU24	Enclosed	25,000	ES
98138	11A19DIM/827	75W	11	2700K	1100	100	120V	240°	82	Yes	0.9	E26	Enclosed	25,000	ES
98139	11A19DIM/830	75W	11	3000K	1150	105	120V	240°	82	Yes	0.9	E26	Enclosed	25,000	ES
98140	11A19DIM/840	75W	11	4000K	1200	109	120V	240°	82	Yes	0.9	E26	Enclosed	25,000	ES
98144	15A21DIM/827	100W	15	2700K	1600	107	120V	240°	82	Yes	0.9	E26	Enclosed	25,000	ES
98145	15A21DIM/830	100W	15	3000K	1650	110	120V	240°	82	Yes	0.9	E26	Enclosed	25,000	ES
98146	15A21DIM/840	100W	15	4000K	1700	113	120V	240°	82	Yes	0.9	E26	Enclosed	25,000	ES
98150	15A21DIM/827/GU24	100W	15	2700K	1600	107	120V	240°	82	Yes	0.9	GU24	Enclosed	25,000	ES
98083	14A19/827/3WAY	40W 60W 100W	4 8 14	2700K	500 1000 1500	125 125 107	120V	230°	82	No	0.9	E26d	Non-Enclosed	15,000	ES

* This lamp might not be compatible with all dimmers. Please visit www.greencreative.com for compatibility information.

www.greencreative.com / info@greencreative.com • Tel / Fax: (888) 774-5433 • f / GREENCREATIVELED t / GClightingLED i / GREEN-CREATIVE

5 - GENERIC PORCH LIGHT

Page 1 of 2

CALI

CALIFORNIA
ACCENT
LIGHTING
INC

PROJECT

TYPE

10-DAY
Satisfaction
Guarantee

DRY/WET

FIELD CUTTABLE

DIMMING

MADE IN U.S.A.

ML2000-CC

STRING LIGHTS

END VIEW

4.3"

6.0"

Canopy C (ML2000-CC)

ACCESSORIES (Sold Separately)

Power Plug (ML2000-PP)

End Cap (ML2000-EC)

LAMP SPECIFICATIONS

LAMP NUMBER	CORRELATED COLOR TEMPERATURE	DARK SKY COMPLIANT	COMPATIBLE SHAPES
2.4K	2400K Incandescent White	Yes	GSFL
2.7K	2700K Warm White	Yes	GSF, GSFL, SSF, SSC
3.0K	3000K Warm White	Yes	GSFL
5.0K	5000K Cool White	No	GSF, GSFL, SSF, SSC
A	Amber	No	SSC, GSF
R	Red	No	SSC, GSF
G	Green	No	SSC, GSF
B	Blue	No	SSC, GSF

FEATURES

APPLICATIONS

Indoor and Outdoor

LAMP

LED Lamp (Included)

LED LAMP LIFE

20,000 Hours

LENGTH

Built to Order

FINISH

Black

FEED

Standard 6' Power Lead

STRAIN RELIEF

Cable (Included, Not for Mounting)

MOUNTING

Mounting Aircraft Cable (Sold Separately)

LISTING

Dry or Wet Location

ANSI/UL1998

CSA 22.2 No. 250.0-04, 2nd Edition

OPTIONS

Mesh, Canopies, or Cages

UV RATING

Sun Light Resistance

BUG RATING

80-100-00

Dark-Sky Compliant**

INSTALLATION

Link to Installation Instructions

ELECTRICAL

DIMMING

Forward Phase

MAXIMUM RUN

100'

VOLTAGE

120V

SYSTEM

20 Amps (12 Gauge Wire)

WATTS

1W or 3W Lamps

SERIES

ML2000-CC

SPACING

12" O/C (12")

LAMP

2.7K-GSF

DIMMING

Forward Phase (BM)

LISTING

Indoor (DOV)

CANOPY FINISH INSIDE**

Neutral (NA)

CANOPY FINISH OUTSIDE**

Polished (PA)

FIXTURE LENGTH

Specify Length in Feet Examples: 100'

12" O/C (12")

2.7K-GSF

5.0K-SSFL

Forward Phase (BM)

18" O/C (18")

5.0K-SSF

2.7K-SSF

Leave Blank for Non-Dimming

24" O/C (24")

A-GSF

5.0K-SSF

Outdoor (WET)

36" O/C (36")

R-GSF

2.7K-SSC

48" O/C (48")

G-SSF

5.0K-SSC

60" O/C (60")

B-GSF

A-SSC

2.4K-GSFL

R-SSC

2.7K-GSFL

G-SSC

3.0K-GSFL

B-SSC

** For Dark Sky Compliant fixtures, use only 2.4K, 2.7K, or 3.0K LEDs

** Standard Canopy Finish: Black (BK) if unspecified

CALIFORNIA ACCENT LIGHTING, INC.
2820 E. Gretta Lane, Anaheim, CA 92806
p: 800.921.CALI (2254) | f: 714.535.7902 | info@calighting.com | calighting.com
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marketLITE™
Manufactured in the U.S.A.



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Page 2 of 2

CALI

CALIFORNIA
ACCENT
LIGHTING
INC

ML2000-CC

STRING LIGHTS

LAMP OPTIONS

Material: Polymer Plastic

Appearance: Frosted

Lamp Watts: 1W

Lamp Life: 20,000 hrs.

Lamp Type: Standard LED

Lumens: 42

Beam Angle: 360°

Temperatures: 2.4K, 2.7K, 3.0K, 5.0K

Material: Glass

Appearance: Clear

Lamp Watts: 3W

Lamp Life: 25,000 hrs.

Lamp Type: Filament LED

Lumens: 256

Beam Angle: 360°

Temperatures: 2.4K, 2.7K, 3.0K, 5.0K

G Shape (GSF)

1.9"

Fluores G Shape (GSFL)

1.7"

S Shape (SSF)

1.7"

S Shape (SSC)

1.7"

MOUNTING ACCESSORIES (Sold Separately - Click on Image to View Cut Sheet, If Applicable)

Mounting Plate (ML2000-MP)

Cable Lock (ML2000-CL-1/8")

Mounting Aircraft Cable (ML2000-AC-1/8"-X) (X = Specify Length)

INSTALLATION RECOMMENDATIONS

- Determine weight of marketLITE that will be used.
- Determine length of marketLITE and multiply by weight.
- An engineer must choose the proper aircraft cable to handle the tension, based on length and weight to prevent product from sagging.
- An engineer must determine the strength of the structure where the cable will attach, based on tension calculation from previous steps.
- If installing on a pole, check with pole manufacturer to confirm the pole can handle the tension.
- marketLITE is hung to the above aircraft cable using the hooks. Secure hooks to aircraft cable by crimping or using stainless steel tie wraps.
- The supplied aircraft cable is designed to prevent strain on the wire. An additional aircraft cable is required to hang marketLITE.

DESIGN GUIDELINES

Straight Run

Sagged Run

HARDWARE INSTALLATION (Wet Location)

POWER PLUG (Wet Location)

INSTALLATION OPTIONS

Building to Building

Pole to Pole

Tree to Tree

Building to Pole

NOTES

- 2.5W FESTOON STYLE LIGHTING, CALI LIGHTING MARKETLITE 2000 LED SERIES CAT# ML2000/24"/LED-2.7K/WET. SEE SITE PLAN FOR LOCATIONS.
- COORDINATE WITH POLE MANUFACTURER TO INSTALL (2) 3/4" EYELETS, 180 DEGREES APART, ON POLE 2" FROM TOP, 90 DEGREES FROM HANDHOLE IN BOTH DIRECTIONS. PAINT TO MATCH POLE. ATTACH STAINLESS STEEL AIRCRAFT CABLE FROM FESTOON LIGHTING TO EYELETS.
- ROUTE POWER CABLE FOR LIGHTING INTO POLE USING WEATHERPROOF COMPRESSION FITTING SCREWED INTO POLE. COORDINATE WITH POLE MANUFACTURER TO INSTALL 3/4" WELDED COUPLING 4" BELOW TOP OF POLE ON SAME SIDE OF POLE AS LIGHT CONNECTION.
- COORDINATE WITH POLE MANUFACTURER TO PROVIDE 3"x5" HAND HOLE AND COVER. USE TAMPER PROOF STAINLESS STEEL HARDWARE TO ATTACH COVER TO POLE. FINISH TO MATCH POLE.
- 5-9/16" OD X 0.375" THICK ROUND STEEL POLE. POLE SHAFT TO HAVE MINIMUM YIELD STRENGTH OF 46,000 PSI, AND DESIGNED TO 90 MPH WIND RATING. FINISH TO BE HIGH QUALITY POLYESTER POWDER COAT ELECTROSTATICALLY APPLIED AND CURED TO A MINIMUM 2.5 MIL. THICKNESS. COLOR PER LANDSCAPE ARCHITECT.
- COORDINATE WITH POLE MANUFACTURER TO PROVIDE 2"x3" CONDUIT OPENING IN BASE OF POLE FOR CONDUIT ENTRY TAPE OPENINGS PRIOR TO BACKFILLING HOLE.
- PVC CONDUIT AND CONDUCTORS. SEE SITE PLAN FOR SIZE AND QUANTITY.
- FINISHED GRADE.
- ATTACH LIGHTING WIRE TO TENSIONED AIRCRAFT CABLE USING STAINLESS STEEL HOG RINGS AT 24" MINIMUM, CENTERED BETWEEN LIGHTS.
- POLE FOUNDATION BELOW FINISHED GRADE TO BE HALF-LAPPED WRAPPED WITH 50 MIL. TAPE TO 4" ABOVE FINISHED GRADE.
- AFTER THE POLE HAS BEEN PLUMBED, BACKFILL HOLE WITH 3,000 PSI CONCRETE TO A POINT 4" BELOW FINISHED GRADE, BACKFILL REMAINING HOLE WITH CLEAN NATIVE SOIL.
- 6" OF COMPACTED PEA GRAVEL FOR DRAINAGE.

6B - FESTOON STYLE LIGHTING DETAIL

NO SCALE

WRIGHT

engineering corporation

ELECTRICAL ENGINEERING AND DESIGN

165 EAST CHILTON DRIVE • CHANDLER, ARIZONA 85225

PHONE 480.497.5829 • FAX 480.497.5807

PHOTOMETRIC CALCULATION SHEET. FOR INFORMATION ONLY.

Professional Engineer

73954

JACOB

BELEFELD

Exp. 03-2024

PROJECT NAME:

SAN TRAVASA BTR

N WHITE AND PARKER RD & W SMITH ENKE RD

PHOTOMETRIC LIGHTING PLAN

WRIGHT ENG.

PROJECT NO: 22615-PH

DESIGN BY: CDL

PH12

2021.4.29 Rev 17

2021.4.29 Rev 17

6A - FESTOON STYLE LIGHTING

H:\2021\22615-San Travasa BTR\Photometrics\22615-PH.dwg

DESCRIPTION

The Concise™ LED luminaire features a rugged and low profile housing construction incorporating patent pending, modular LED LightBAR™ technology. Through superior optical control, the Concise luminaire delivers uniform and energy conscious illumination optimized to improve vehicular movement and pedestrian safety. UL/cUL listed for wet locations.

SPECIFICATION FEATURES

Construction

One-piece, low copper die-cast aluminum housing features heavy wall construction for superior heat transfer and resistance to corrosion. Formed aluminum faceplate is secured via four stainless steel fasteners and is recessed for clean mating of door and housing. Optional tamper-proof Torx™ -head fasteners offer vandal resistant access to the electrical compartment.

Optics

Choice of nine patented, high-efficiency AccuLED Optics™ distributions. Optics are precisely designed to shape the light output, maximizing efficiency and application spacing. AccuLED Optics technology creates consistent distributions with the scalability to meet customized application requirements. Offered Standard in 4000K (+/- 275K) CCT and minimum 70 CRI. Optional 3000K CCT, 5000K CCT and 5700K CCT.

Electrical

LED drivers mount to die-cast aluminum back housing for optimal heat sinking, operation efficacy, and prolonged life. Standard drivers feature electronic universal voltage (120-277V, 50/60Hz), 347V 60Hz or 480V 60Hz operation. 480V is compatible for use with 480V Wye systems only. Greater than 0.9 power factor, less than 20% harmonic distortion, and is suitable for operation in -40°C to 40°C ambient environments. All fixtures are shipped standard with 100V/100A common – and differential – mode surge protection. LightBARs feature an IP66 enclosure rating and maintain greater than 95% lumen maintenance at 60,000 hours per IESNA TM-21. Occupancy sensor and dimming options available.

Mounting

Standard fixture mounts to a square or octagonal 4" surface or recessed J-box via heavy gauge painted quick mount box complete with toolless removable cable allowing for hands-free fixture wiring. Single carton packaging of

Catalog #		Type
Project		
Comments		Date
Prepared by		

McGraw-Edison



CNC
CONCISE LED

1 - 4 LightBARs
Solid State LED

CANOPY LUMINAIRE

housing and quick mounting box for contractor friendly arrival of product to site. Optional mounting methods include rigid or free swinging pendant, trunnion mount and wall mount and surface mount configurations.

Finish

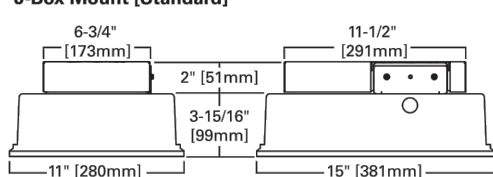
Cast components and mounting box finished in a super TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Standard colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available.

Warranty

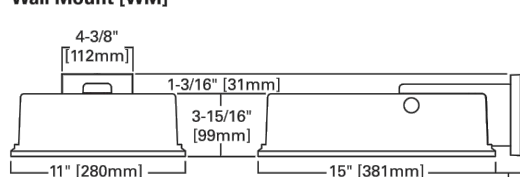
Five-year warranty.

MOUNTING METHODS

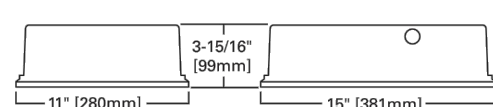
J-Box Mount [Standard]



Wall Mount [WM]



Surface Mount [SM]



CERTIFICATION DATA

UL/cUL Listed
LM79 / LM80 Compliant
IP66 Fixture Rating
IP66 LightBAr
ISO 9001

ENERGY DATA
Electronic LED Driver
>0.9 Power Factor
<20% Total Harmonic Distortion
120V-277V/50 & 60Hz, 347V/60Hz, 480V/60Hz
-40°C Minimum Temperature
40°C Ambient Temperature Rating
50°C Ambient Temperature Rating (HA option)

SHIPPING DATA
Approximate Net Weight:
16 lbs. (8 kgs.)



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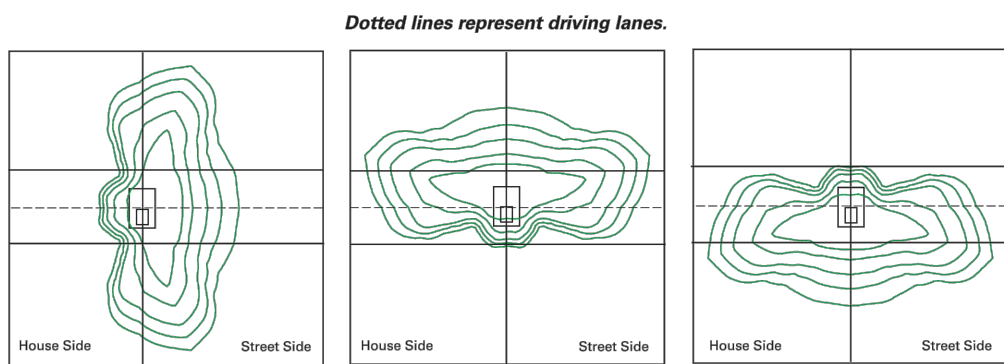


Edison
1121 Highway 76 South
Phoenix, AZ, US 85086
P: 770-488-2800
www.edison-lighting.com

Specifications and dimensions subject to change without notice.

CNC CONCISE LED

OPTIC ORIENTATION



ORDERING INFORMATION

Product Family	Number of LightBARs ¹⁾	Lamp Type	Voltage	Distribution	Color
CNC-Concise	E03-(1) 21 LED LightBAR ²⁾	LED-Solid State Light Emitting Diodes	E1-Electronic (120V-277V) E2-Electronic 480-480V ³⁾	C01-Common C02-Type I V Square C03-Type II V Square C04-Type III V Square GL2-Type II w/Glare Control GL3-Type III w/Glare Control GL4-Type IV w/Glare Control RW-Rectangular CPR-60° Forward Throw Perimeter Left CPR-60° Forward Throw Perimeter Right	DP-Dark DP-Dark Platinum GM-Graphite Metallic TW-True White

Options (Add as Suffix)

DM-40° 10V Dimming Drivers⁴⁾
HA-40°C High Ambient Temperature Rating⁵⁾
2k-Two Circuits⁶⁾
WM-Wall Mount
LSP-Optics Rotated 90° Left
RSP-Optics Rotated 90° Right
TR-Tamper Resistant Fasteners
TMB-Trunnion Mount with Connection Box (Door Assembly Required)

SM-Surface Mount⁷⁾
7000-70 CRI / 3000K CCT⁸⁾
7000-70 CRI / 5000K CCT⁸⁾
7000-70 CRI / 5700K CCT⁸⁾
8000-80 CRI / 3000K CCT⁸⁾
LCF-LightBAR Cover Plate Matches Housing Finish
RFP-Integral Cold Weather Battery Pack (Specify 120V or 277V. Must Specify Voltage)⁹⁾
OBX-Integral Occupancy Sensor (Specify Number of LightBARs)¹⁰⁾

Accessories (Order Separately)
MA1250-10M Circuit Module Replacement
RV/WG-Field-Installed Wire Guard

NOTES:
1. Standard 4000K CCT and greater than 70CRI.
2. 21 LED LightBAR powered at 30W. 7 LED LightBAR powered at 1A.
3. Not available with 1A circuit option.
4. Only for use with 480V Wye systems. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems).
5. Not available with 1A option. Not available in E04 or F04 with 347V or 480V.
6. Not available in models with E04 or F04.
7. Available in models with E04, E04 or F04-F04. Low level output varies by bar count specified. Consult factory.
8. Consult factory before ordering in combination with ISO option.
9. Surface mount configurations limited to 24°C ambient conditions.
10. Lead times apply. See website for RFL files.
11. Available with E01 and F01 configurations only. Rated for 30°C ambient operating temperature.
12. Housed in external box mounted to the luminaire. Available in E02, E04 and F02-F04 configurations. Replace X with number of LightBARs (e.g., C02) controlled by the occupancy sensor, default time delay setting is 10 minutes. Standard lens covers up to 12" mounting height, 30" and maximum 30" diameter. For other configurations, consult customer service.

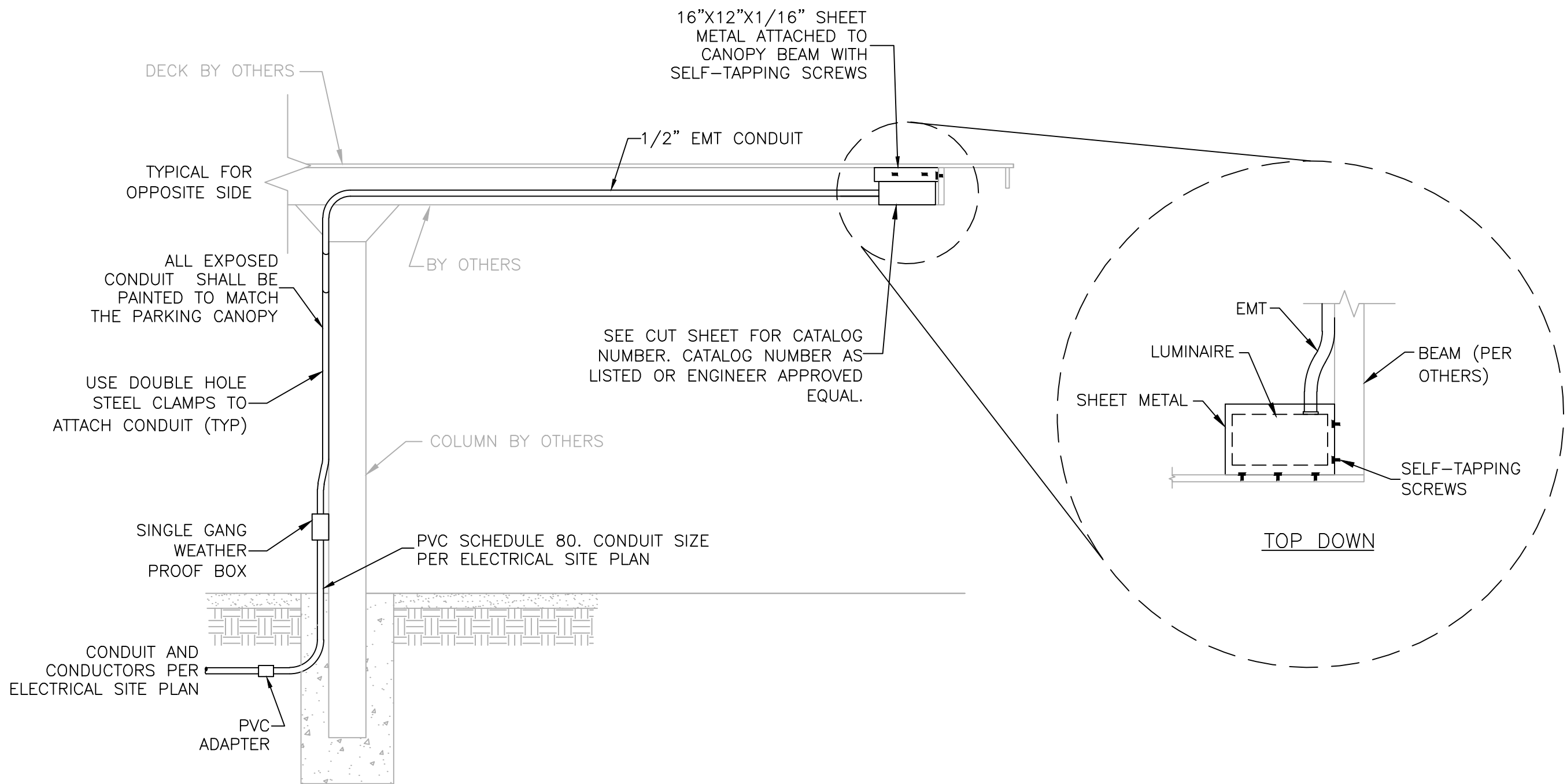


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7A - CANOPY-MOUNTED LIGHT

7B - CANOPY LIGHT DETAIL

NO SCALE



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PHOTOMETRIC LIGHTING PLAN
WRIGHT ENG.
PROJECT NO: **22615-PH**
DESIGN BY: CDL **PH13**