

NOTE PROPERTY LINE BELOW PLAN OUTLINE

Not to Scale

LIGHTING PARAMETERS:

Luminaire Schedule									
Symbol	Label	[MANUFAC]	Qty	Arrangement	LLF	Description	Arr. Watts	Arr. Lum. Lumens	Mounting Height
☐	SL1	U.S. ARCHITECTURAL LIGHTING	4	Single	0.900	RZR-PLED-III-M-80LED-525mA-40K	129.4	18776	20
☐	SL2	U.S. ARCHITECTURAL LIGHTING	3	Single	0.900	RZR-PLED-II-80LED-525mA-40K	129.4	18454	20
☐	WM	U.S. ARCHITECTURAL LIGHTING	6	Single	0.900	RZR-WM1-PLED-II-FR-20LED-350mA-40K	21.4	3225	9

Calculation Summary									
Label	Units	Avg	Max	Min	Avg/Min	Max/Min	Grid Z	PtSpclr	PtSpctb
Parking Lot	Fc	1.69	20.5	0.0	N.A.	N.A.	0	10	10
DRIVE AISLE	Fc	4.25	5.5	3.3	1.29	1.67			
MAIN - PARKING PERIMETER	Fc	3.40	6.2	1.2	2.83	5.17			
MAIN - PERIMETER	Fc	3.67	4.8	2.1	1.75	2.29			

Design Notes:

This lighting design shall only be used to verify that the proposed light fixtures meet the foot-candle requirements of this project. This design does not consider the wind or load rating of the proposed light poles.

Target Requirements:

Parking Lot : N/A PROPOSED LIGHTING

Note on this Design:
 This report makes no representations in regard to Lighting Design or Specification, rather it attempts to accurately reflect the photometric results of a design, as approved by others.

Note on these Photometric Calculations:
 This analysis is a mathematical model and can be only as accurate as is permitted by the third-party software and the IES standards used. All digital CAD data appear to be accurate, however, this apparent accuracy is an artifact of the techniques used to generate it and is in no way intended to imply accuracy in the real world.

There are many factors that will impact the actual performance of lighting in the constructed space, including: the accuracy of the original source (.ies) files supplied by the manufacturer, input voltage ballast variances, actual finish values in the constructed environment, manufacturing variations in both the source (lamp) and the luminaire, final luminaire placement, obstructions, and installation quality. Further, field measurement itself is subject to errors arising from measuring methods and/or technology selected, and the knowledge/ability of the measuring party. While the creator of this lighting study makes every effort to ensure accuracy, they cannot be held liable for any errors. The recipient of this lighting study understands and accepts that the likelihood of scaling error increases when no .DWG file or other properly-dimensioned drawing is provided to the designer.

NB: Reflective Values have a significant effect on light levels, the end-user of the document should confirm these values before accepting the results of any photometric report.

AREA & ROADWAY LIGHTING

RAZAR SERIES - LED

LOW PROFILE AREA LUMINAIRE

Optical Housing
 Heavy cast low copper aluminum assembly (A356 alloy, <2% copper) minimum wall thickness .188". LED Module mounting area is machined to within a .002" surface tolerance for maximum surface contact and thermal conductivity from the LED modules to the radiating fins. Passive cooling fins above the LED optics provide superior thermal management and long LED life. The optical and electrical compartments are integrated with the support arm to create one assembly. Cast and forged driver compartment cover allows access to the drivers and wiring.

Electrical Housing w/ Integrated Arm
 Heavy cast low copper aluminum (A356 alloy, <2% copper) assembly with integral cooling ribs surrounding the electrical compartment and a flat surface on the top of the arm to accommodate a physical receptacle. Solid barrier wall separates optical and electrical compartments. The optical compartment and electrical compartment with the integrated support arm combine to create one assembly. Minimum wall thickness is .188". Cast and forged driver assembly cover is integrated with wiring compartment cover.

PLED Optics
 Emitters (LED's) are arrayed on a metal core PCB panel with each emitter located on a copper thermal transfer pad and enclosed by an LED reflector. LED optics completely seal each individual emitter to meet an IP66 rating. In asymmetric distributions, a micro-reflector inside the reflector reflects the house side emitter output towards the street side and functions as a house side shielding element. Reflectors are injection molded HZ acrylic. Each LED emitter is sealed to the PCB over an emitter and all reflectors are retained by an aluminum frame. Any one Panel or group of Panels in a luminaire, have the same optical pattern. LED reflectors produce standard site/area distributions. Panels are field replaceable and field replaceable in 90° increments.

LED Driver(s)
 Constant current electronic with a power factor of > .90 and a minimum operating temperature of -40°F (-40°C). Driver(s) is/are III and will recognized and mounted directly against the Electrical Housing to facilitate thermal transfer heat drain by universal clamps to facilitate easy removal. In-line terminal blocks facilitate wiring between the driver and optical array. Drivers accept an input of 120-277V 50/60Hz or 24V-480V 50/60Hz (0-10V dimmable driver is standard. Driver has a minimum of 3KV internal surge protection. Luminaires supplied with DMV surge protector for field accessible installation.)

LED Emitters
 High output LEDs are utilized with drive currents ranging from 350mA to 1050mA. RZR LED's are available in standard Neutral White (5000K), or optional Cool White (5000K) or Warm White (3000K). Consult Factory for other LED options.

Amber LED's
 (True Amber) LED's utilize material that emits light in the amber spectral bandwidth without the use of phosphors.

Finish
 Electrostatically applied TBC Polyester Powder Coat on a substrate prepared with 20 PSI power wash of 140°F. Four step media blast and iron phosphate pre-treatment for protection and paint adhesion. 400°F bake for maximum hardness and durability.

Mount Arm Fitter/Electrical Housing
 Replaces standard electrical housing. Fits standard 2.3/8" O.D horizontal support. Two (2) slots with two (2) bolts each encircle the lower half of the support. Upper half of the support rests on self-aligning steps that position the angle of the luminaire at 0°, +1.5°, +1.5° or +3° up from the horizontal. All hardware is stainless steel.

PROJECT NAME:
PROJECT TYPE:

RZR
 (MODELS: RZRM, RZR, RZR-G & RZR-MAF*) PATENT PENDING

RZR-G

RZR-RZRM & RZR-MAF*
 (See Note)

RZR & RZRM

RZR-MAF*

FIXTURE	A	B	C	D
RZR-G	15"	26.5"	2"	7"
RZR	14.75"	26.25"	2.75"	6.5"
RZR-MAF	11.5"	22"	2.5"	6.25"
RZR-MAF*	15"	26.25"	2.5"	4"

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U.S. ARCHITECTURAL
 DRAWING PROGRAM D01110203

2022158

U.S. Listed for
 the Location

TYPE SL1, SL2, WM

Drawn By: CA

Date: 8/2/2022

Rev: 0

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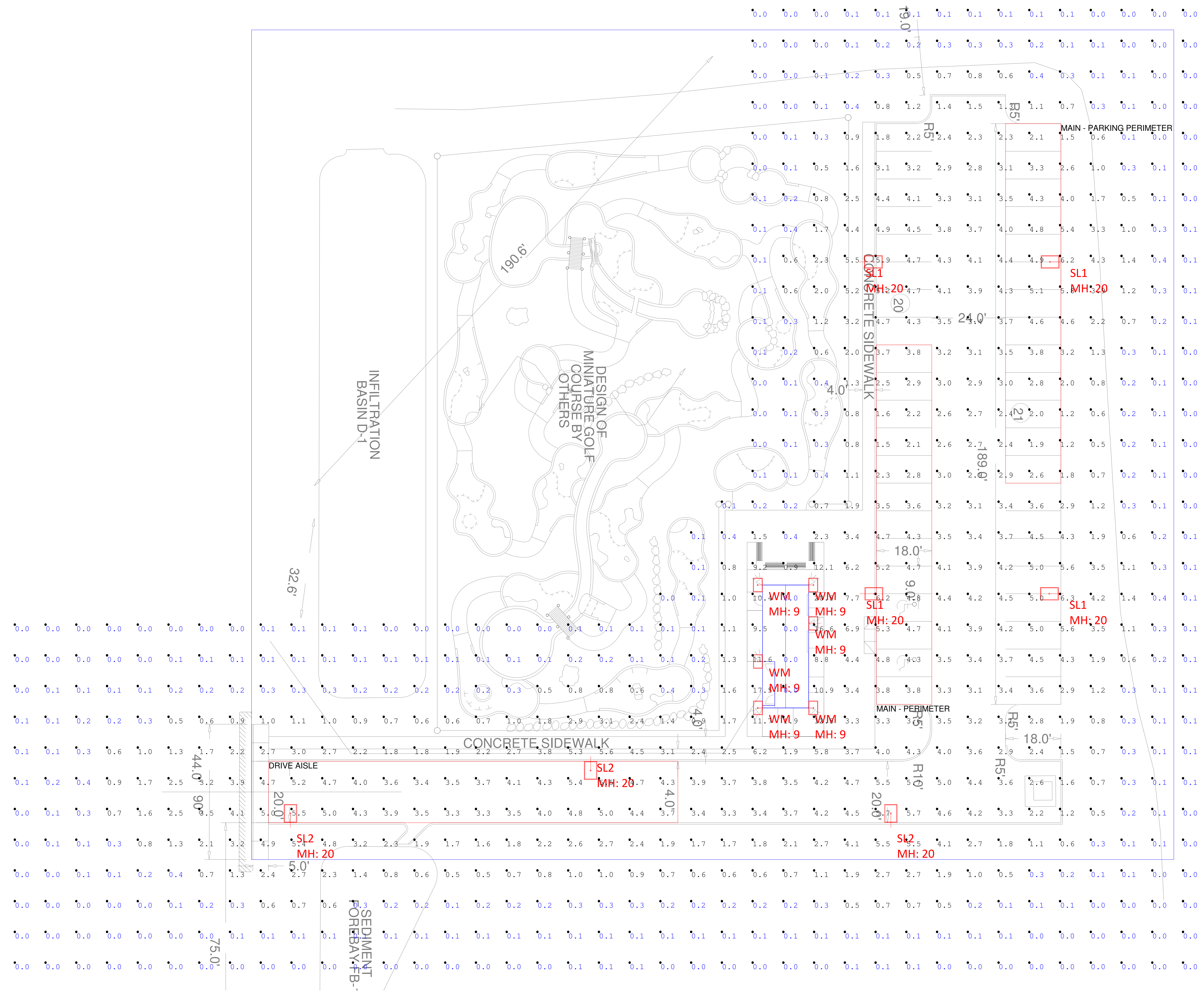
**Valley Road Miniature Golf Course
Middletown, RI - Parking Lot Lighting
Exterior Lighting**

Drawn By: CA

Date: 8/2/2022

Rev: 0

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Scale: 1 inch= 15 Ft.