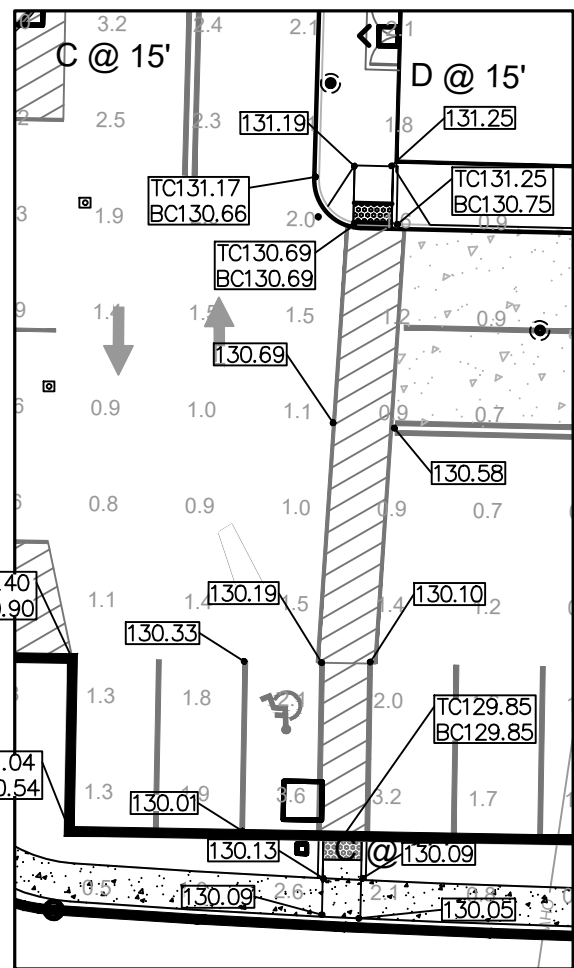


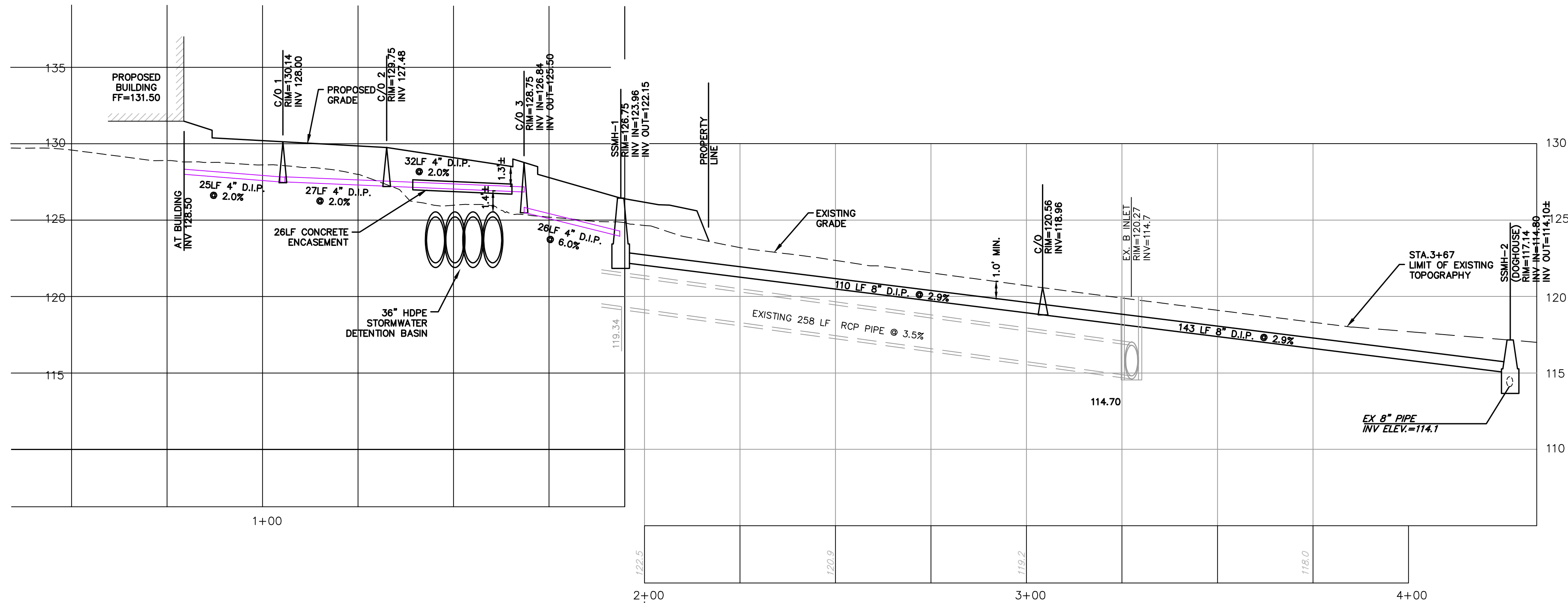
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NOTE:

THE EXISTING UNDERGROUND UTILITY INFORMATION SHOWN ON THESE PLANS IS APPROXIMATE AND IS NOT GUARANTEED AS TO ACCURACY OR COMPLETENESS. PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL INFORMATION. THE CONTRACTOR SHALL CALL UNDERGROUND UTILITIES 1 (800) 272-1000 FOR MARKOUT PRIOR TO EXCAVATION. TEST PITS SHALL BE EXCAVATED BY THE CONTRACTOR AT ALL CROSSINGS PRIOR TO CONSTRUCTION TO ASCERTAIN EXISTING LOCATIONS, ELEVATIONS, MATERIALS, AND SIZES. TEST PIT DATA SHALL BE GIVEN TO THE ENGINEER PRIOR TO CONSTRUCTION TO PERMIT ADJUSTMENTS AS REQUIRED.



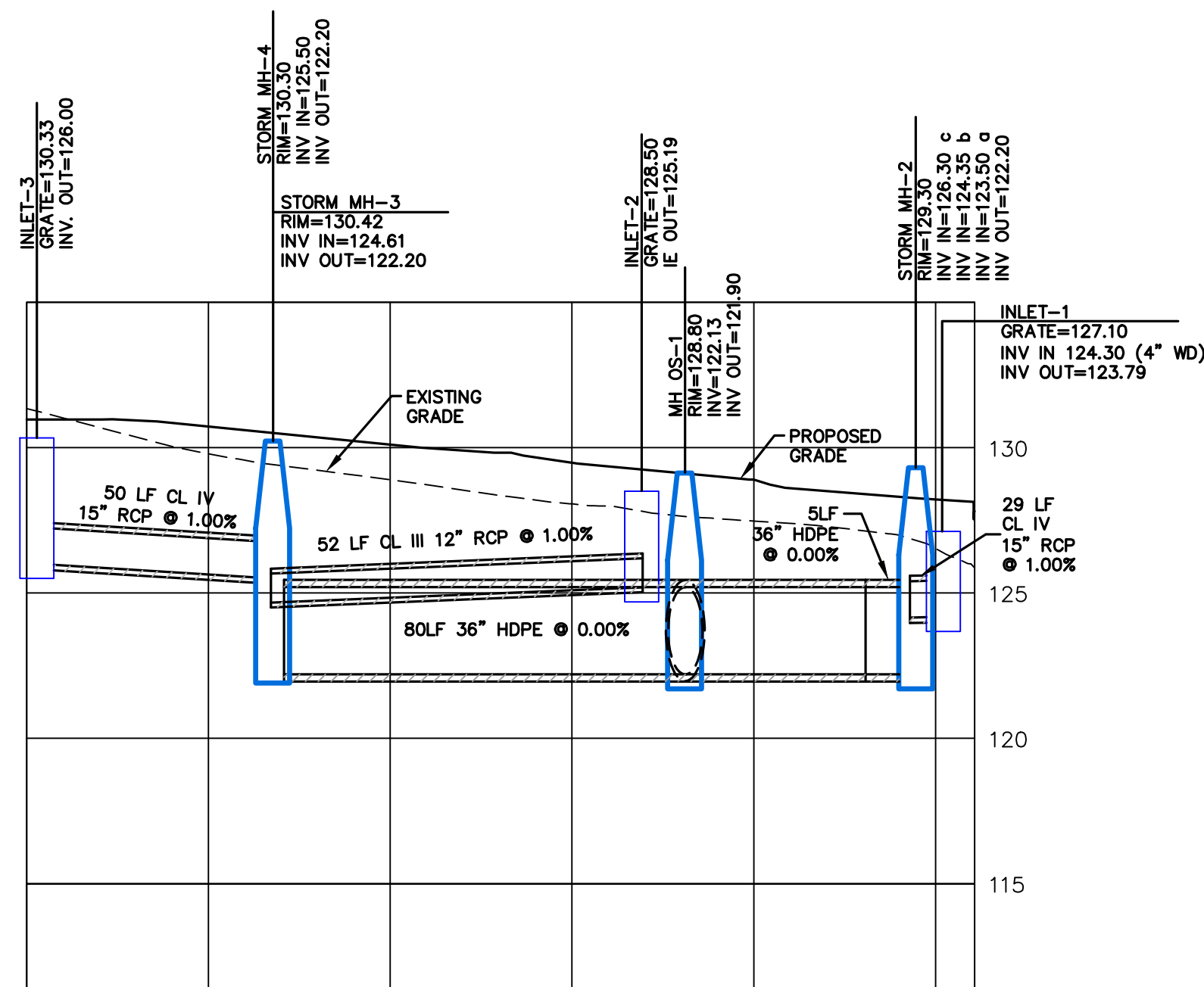


SANITARY SEWER PROFILE

SCALE: 1" = 20' HORIZ.
1" = 5' VERT.

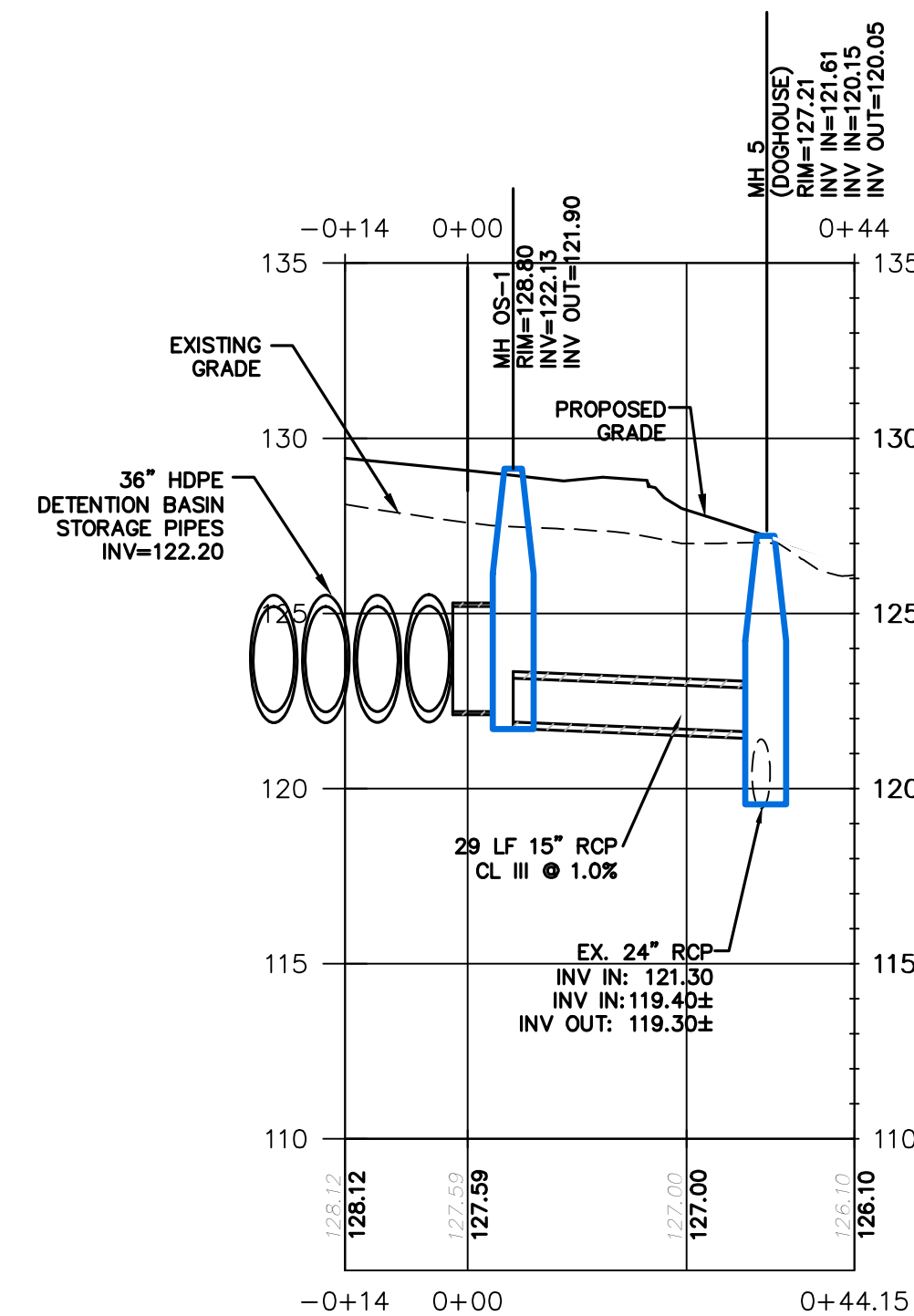
PROPOSED SANITARY SEWER FLOW PER DAY (NJAC 7:14A-23.3)
FAST FOOD RESTAURANT: 15 GAL/DAY/SEAT
14 SEATS
210 GAL/DAY

SANITARY SEWER DISCHARGES TO STAGE II SEWAGE TREATMENT PLANT NJ0026905



DRAINAGE PIPES TO DETENTION BASIN

SCALE: 1" = 20' HORIZ.
1" = 5' VERT.



DETENTION BASIN TO OUTFALL

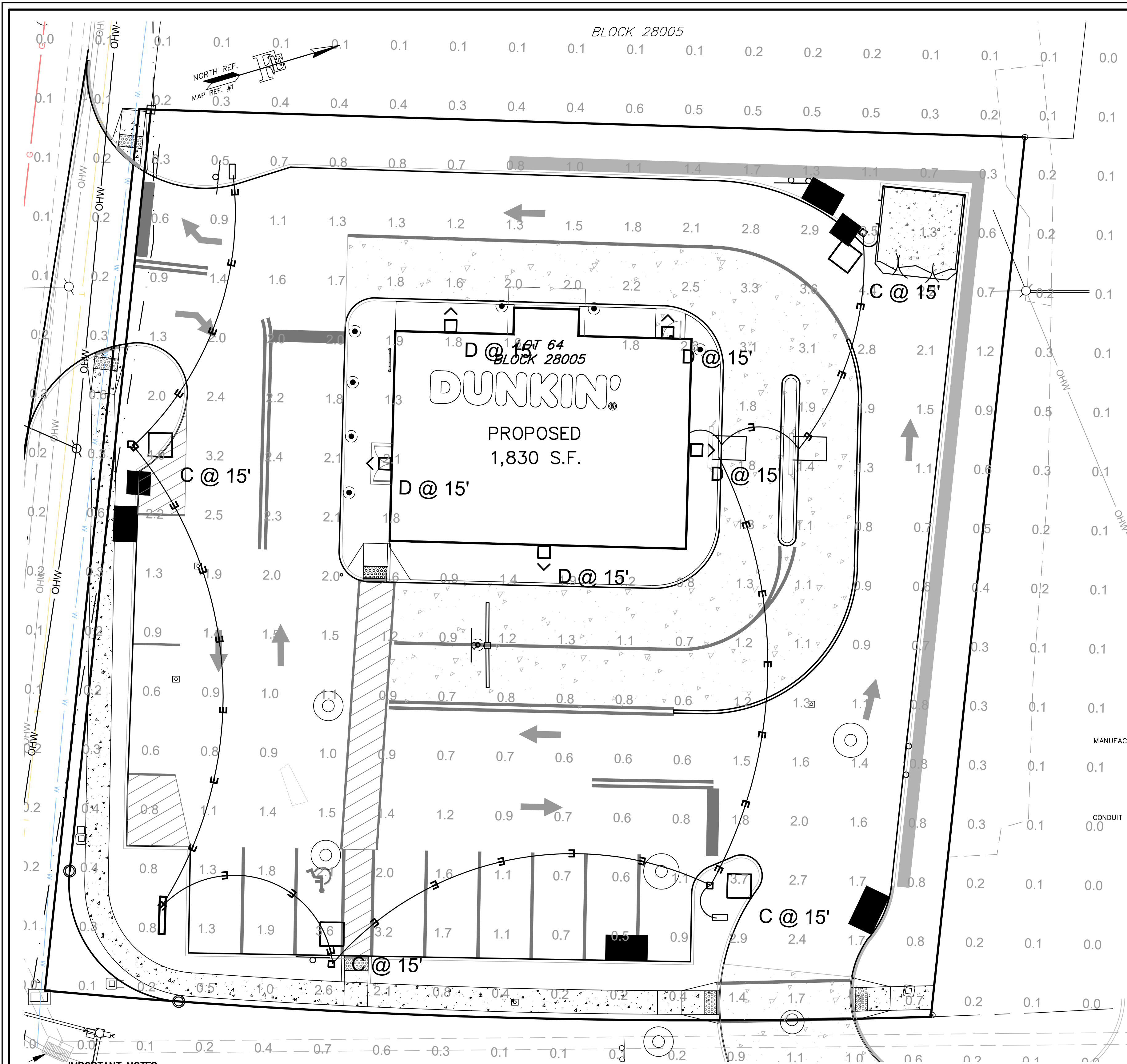
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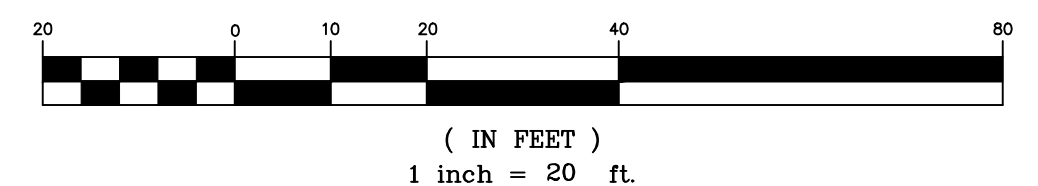
3	9/23/2021	SUPPLEMENT TO REVISION 2
2	9/15/2021	PER BOARD REVIEW COMMENTS
1	5/20/2021	PER TWP COMPLETENESS REVIEW
NO.	DATE	REVISION
DRAWN BY: SCALE: FIELD BOOK: AMH AS NOTED		
CHKD BY: FILE: PWF		
#1046/DWG/BASEMAPS/BASEMAPS-9-2020		
PAUL W. FERRIERO N.J. PROFESSIONAL ENGINEER NO. <u>GE32978</u>		
180 MAIN STREET P.O. BOX 571 CHESTER, NEW JERSEY 07930 908-879-6209		
CERTIFICATE OF AUTHORIZATION 24GA27935400		
SANITARY & STORM SEWER PROFILES DUNKIN'		
LOT 64 BLOCK 28005 MONTGOMERY TOWNSHIP SOMERSET COUNTY NEW JERSEY		
SHEET 5 OF 14		
DATE:	2/25/2021	PROJECT NO:
REVISION:		141046



IMPORTANT NOTES:

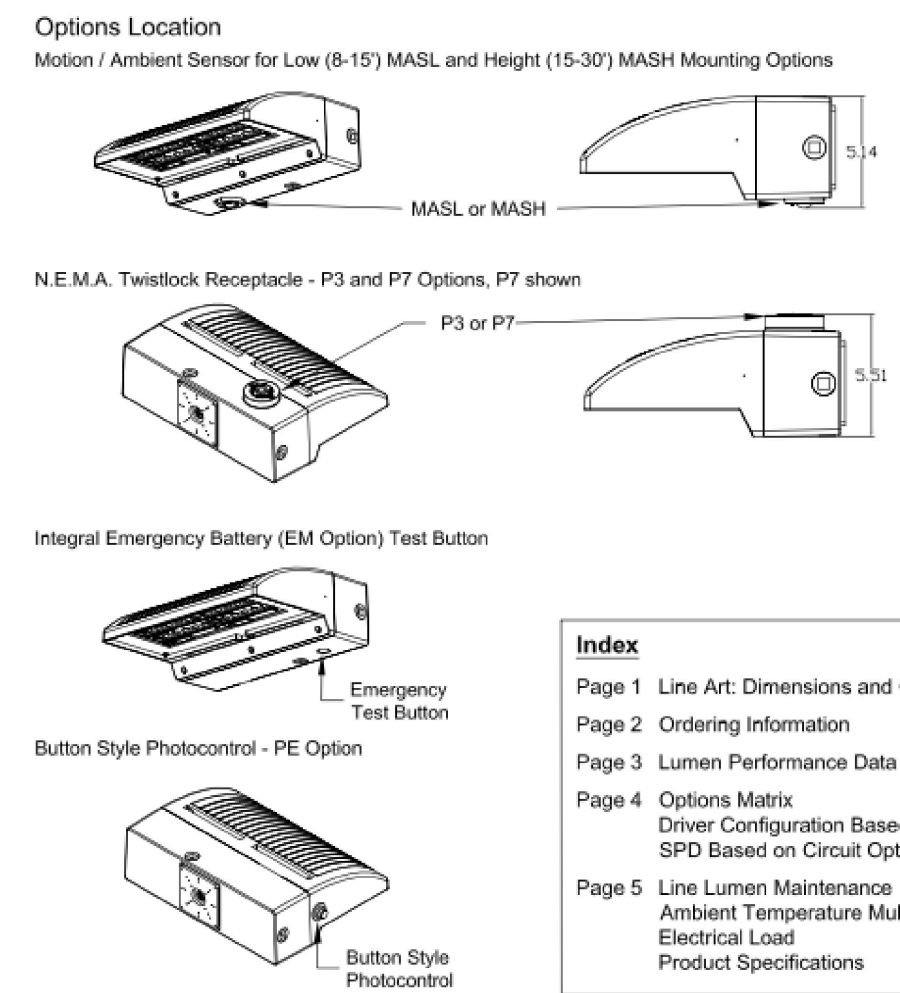
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LIGHTING PLAN
GRAPHIC SCALE



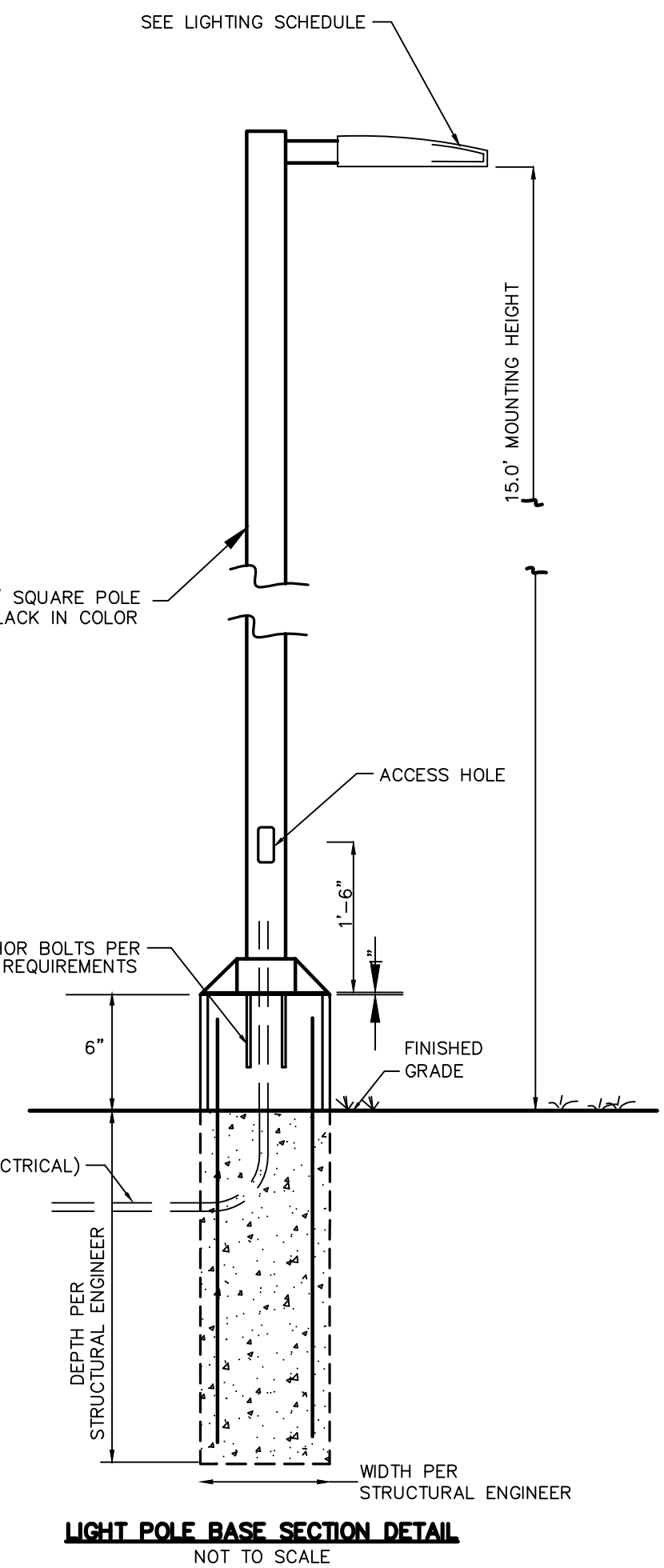
LIGHTING NOTES:

- THIS LIGHTING PLAN DEPICTS PROPOSED SUSTAINED ILLUMINATION LEVELS CALCULATED USING DATA PROVIDED BY THE NOTED MANUFACTURER. ACTUAL SUSTAINED SITE ILLUMINATION LEVELS AND PERFORMANCE OF LUMINAIRES MAY VARY DUE TO VARIATIONS IN WEATHER, ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS, THE SERVICE LIFE OF EQUIPMENT AND LUMINAIRES AND OTHER RELATED VARIABLE FIELD CONDITIONS.
- THE LIGHTING VALUES AND CALCULATION POINTS DEPICTED ON THIS PLAN ARE ALL ANALYZED ON A HORIZONTAL GEOMETRIC PLANE AT ELEVATION ZERO (GROUND LEVEL) UNLESS OTHERWISE NOTED.
- THE LUMAIRES, LAMPS AND LENSES SHALL BE REGULARLY INSPECTED/MAINTAINED TO INSURE THAT THEY FUNCTION PROPERLY. THIS WORK MAY INCLUDE, BUT IS NOT LIMITED TO, VISUAL INSPECTIONS, CLEANING OF LENSES, AND RELAMPING (IF NECESSARY).
- THIS LIGHTING PLAN IS INTENDED TO SHOW THE LOCATIONS AND TYPE OF LUMINAIRES, POWER SYSTEM, CONDUITS, WIRING AND OTHER ELECTRICAL COMPONENTS ARE THE RESPONSIBILITY OF THE ARCHITECT AND/OR LIGHTING CONTRACTOR AS INDICATED IN THE CONSTRUCTION CONTRACT DOCUMENTS. THESE ITEMS SHALL BE INSTALLED AS REQUIRED BY STATE AND LOCAL REGULATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF LIGHTING FIXTURES AND APPURTENANCES IN ACCORDANCE WITH ALL APPLICABLE BUILDING AND ELECTRICAL CODES.
- ANY LIGHT LOCATIONS THAT CONFLICT WITH DRAINAGE, UTILITIES, OR OTHER STRUCTURES SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGNER BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
- THE LIGHTING CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CONTRACTOR REQUIREMENTS INDICATED IN THE SITE PLAN, INCLUDING BUT NOT LIMITED TO GENERAL NOTES, GRADING AND UTILITY NOTES, SITE SAFETY, AND GOVERNMENTAL REGULATIONS.
- MOUNTING HEIGHT FOR FREESTANDING LIGHTS SHALL BE NO HIGHER THAN FIFTEEN (15) FEET.
- OUTDOOR ILLUMINATION SHALL BE ON FROM DUSK TO DAWN UTILIZING PHOTOMETRIC CONTROLS BASED ON OPERATING HOURS.

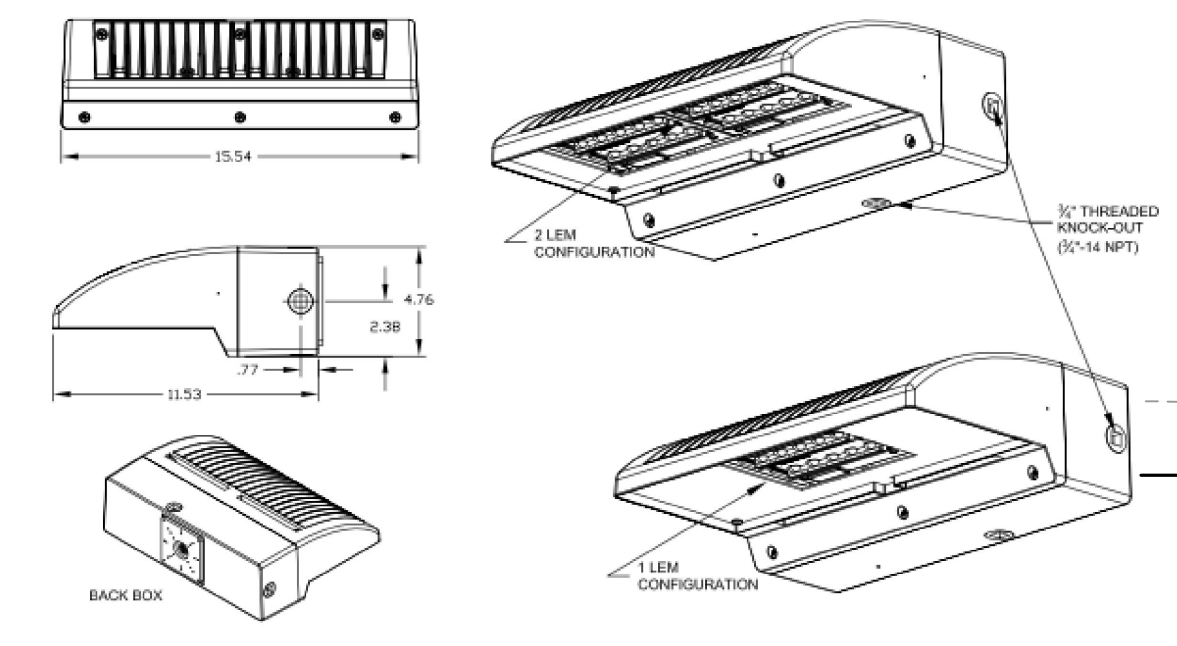


Index

Page 1	Line Art: Dimensions and Option Location
Page 2	Ordering Information
Page 3	Lumen Performance Data
Page 4	Options Matrix Driver Configuration Based on Circuit Option SPD Based on Circuit Option
Page 5	Line Lumen Maintenance Ambient Temperature Multiplier Electrical Load Product Specifications



DIMENSIONS



LEGEND

- EXISTING CONTOUR LINE
- PROPOSED CONTOUR LINE
- EXISTING SPOT GRADE
- PROPOSED SPOT GRADE
- EXISTING CURB LINE
- PROPOSED CURB LINE
- EXISTING INLET
- PROPOSED INLET
- EXISTING STORM/SAN PIPE
- PROPOSED STORM SEWER
- EXISTING SITE LIGHT
- PROPOSED SITE LIGHT
- EXISTING GAS LINE
- EXISTING WATER LINE
- EXISTING OVERHEAD WIRE
- EXISTING UTILITY POLE
- EXISTING STONE WALL
- EXISTING FENCE
- PROPOSED CONCRETE
- EXISTING SITE LIGHT

Features:

OPTICAL

The Autobahn's new molded silicone optics provide exceptional performance. Silicone optics are superior to other polymeric materials in the areas of; optical efficiency, thermal performance, and reduction in dirt accumulation, all of which can lead to long term lumen degradation and a shift in optical distribution. Also, because silicone allows for the molding of fine details as well as thick sections, it produces the most crisp, clean and well-defined lighting distributions available. Silicone optics paired with modern LED's allow the Autobahn to take full advantage of both technologies.

Same Light: Performance is comparable to 100 - 400W HPS roadway luminaires.

White Light: Correlated color temperature - 4000K, or optional 2700K, 3000K or 5000K, all 70 CRI minimum.

Unique IP66 rated LED light engines provided 0% uplight and restrict backlight to within sidewalk depth, providing optimal application coverage and optimal pole spacing. Available in Type II, III, IV, and V roadway distributions.

ELECTRICAL

Expected Life: LED light engines are rated >100,000 hours at 25°C, L70. Electronic driver has an expected life of 100,000 hours at a 25°C ambient.

Lower Energy: Saves an expected of 40-60% over comparable HID luminaires.

Robust Surge Protection: Two different surge protection options provide a minimum of ANSI C136.2 10kV/5kA protection. 20kV/10kA protection is also available.

Luminaire ships with a 0-10v dimmable driver. Luminaire is continuous and step dimming capable via AO option or controls installed on P7 photocontrol receptacle option.

MECHANICAL

Includes standard AEL lineman-friendly features such as tool-less entry, 3 station terminal block and quick disconnects. Bubble level located inside the electrical compartment for easily leveling at installation.

Rugged die-cast aluminum housing and door are polyester powder-coated for durability and corrosion resistance. Rigorous five-stage pre-treating and painting process yields a finish that achieves a scribe creepage rating of 7 (per ASTM D1654) after over 5000 hours exposure to salt fog chamber (operated per ASTM B117).

Mast arm mount is adjustable for arms from 1-1/4" to 2" (1-5/8" to 2-3/8" O.D.) diameter. Provides a 36 vibration rating per ANSI C136.31

Wildlife shield is cast into the housing (not a separate piece).

CONTROLS

NEMA 3 pin photocontrol receptacle is standard, with the Acuity designed ANSI standard 7 pin receptacle optionally available.

Premium solid state locking style photocontrol - PCSS (10 year rated life) Extreme long life solid state locking style photocontrol - PCLL (20 year rated life).

Optional onboard Adjustable Output module allows the light output and input wattage to be modified to meet site specific requirements, and also can allow a single fixture to be flexibly applied in many different applications.

The electrical contractor shall be responsible for receiving, storage, installation and wiring of light fixtures.

The electrical contractor shall report any damaged light fixtures or missing parts to Villa Lighting within 48 hours of receipt of light fixture package.

Design is based on current information provided at the time of request. Any changes in mounting height, mounting location, lamp wattage, lamp type, and existing field conditions that effect any of the previously mentioned will void the current layout and require a change request and recalculation. Calculations are based upon a computer simulation and actual field calculations may vary.

Fixtures mounted on 15' pole
Light level calculated on the ground

General Notes - Exterior

- Readings shown are based on a total LLF of as shown at grade. Data references the extrapolated performance projections in a 25c ambient based on 10,000 hrs of LED testing (per IESNA LM-80-08 and projected per IESNA TM-21-11).
- Please refer to the fixture labels for product type and mounting height.
- Product information can be obtained at <https://www.acuitybrands.com/> or through your local agency.

Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Parking Lot	✕	1.5 fc	4.4 fc	0.5 fc	8.8:1	3.0:1
Spill Light Summary	+	0.3 fc	4.4 fc	0.0 fc	N/A	N/A

Schedule

Symbol	Label	Image	Quantity	Manufacturer	Catalog Number	Number Lamps	Lumens Per Lamp	Light Loss Factor	Wattage	Description
	D		5	Holograph	HLWP2C P10 40K XX T4M	1	3079	0.95	28	Wallpack Full Cutoff LED, LED Performance Package P10, 4000 series CCT, Voltage, Type IV Medium
	C		4	American Electric Lighting	AT80 P202 R4 4K/5K HSS	1	5703	0.91	49	Autobahn Small P202 Package Roadway Type IV 4000K/5000K House side shield

LIGHTING PLAN



LOT 64 BLOCK 28005
MONTGOMERY TOWNSHIP
SOMERSET COUNTY
NEW JERSEY

SHEET 8 OF 14	
DATE: 2/25/2021	PROJECT NO: 141046