

GENERAL NOTES

- PRIOR TO THE START OF CONSTRUCTION THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION, SIZE AND DIMENSION OF ALL UNDERGROUND UTILITIES. DAVID A. STIRES ASSOCIATES, L.L.C. ASSUMES NO RESPONSIBILITY FOR THE LOCATION OF BURIED UTILITIES SHOWN NOR LACK THEREOF. THE CONTRACTOR SHALL CONTACT THE UTILITY MARK OUT SERVICE BY CALLING 1-800-272-1000 PRIOR TO THE START OF CONSTRUCTION.
- ANY DISCREPANCIES IN REFERENCED COORDINATES, ELEVATIONS, EXISTING DIMENSIONS AND DETAILS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER OR OWNER'S REPRESENTATIVE BEFORE PROCEEDING WITH THE WORK.
- ALL DEBRIS, CONCRETE CHUNKS, TREE STUMPS, AND OTHER UNSUITABLE MATERIAL RESULTING FROM THE SITE GRADING AND EXISTING STRUCTURAL DEMOLITION SHALL BE DISPOSED OF AT AN APPROVED DISPOSAL LOCATION. NO UNSUITABLE MATERIALS SHALL BE PERMITTED TO BE BURIED ON SITE.
- ALL IMPROVEMENTS SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH THE MOST RECENT CONSTRUCTION STANDARDS OF THE BOROUGH OF RARITAN AND RISIS STANDARDS.
- IN INSTANCES WHERE THE BOROUGH SPECIFICATIONS PROVIDE NO DETAILED SPECIFICATION, THE MATERIALS AND METHODS OF CONSTRUCTION SHALL MEET AND CONFORM TO THE REQUIREMENTS OF "THE STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION" FOR THE NEW JERSEY DEPARTMENT OF TRANSPORTATION, VERSION 2007.
- ALL PROPOSED UTILITIES SHALL BE PLACED UNDERGROUND.
- THE SITE DOES NOT CONTAIN ANY FRESH WATER WETLAND AREAS NOR IS IT SUBJECT TO ANY OFF TRACT TRANSITION AREAS.
- SOILS ON SITE ARE: BnhB-BIRDSBORO SILT LOAM & BoyAt-BOWMANVILLE SILT LOAM.
- SITE IS CURRENTLY SERVICED BY SANITARY SEWER, WATER, GAS, ELECTRIC & TELEPHONE.
- A KNOX BOX SHALL BE INSTALLED AT THE PROPERTY SUBJECT TO THE REVIEW AND APPROVAL OF THE BOROUGH FIRE CODE OFFICIAL.
- TOTAL LAND DISTURBANCE = 72,945 S.F. OR 1.67 AC.
- DETECTABLE WARNING SURFACE SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT ADA STANDARDS.
- ALL SITE WORK SHALL BE IN ACCORDANCE WITH THE NJDOT STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES.
- THE PROPOSED APARTMENT BUILDING IS TO BE FULLY SPRINKLERED.
- RECYCLING AND GARBAGE REMOVAL IS TO BE PROVIDED BY A PRIVATE CARTER.
- PROPOSED BUILDING DIMENSIONS TO BE VERIFIED WITH ARCHITECT PRIOR TO CONSTRUCTION.
- REDUCTION OF IMPERVIOUS COVERAGE EQUALS 11,072 S.F.
- ELECTRIC VEHICLE CHARGING STATIONS TO BE WITHIN THE PARKING GARAGE.
- SIGNAGE SHALL BE POSTED WITHIN THE PARKING GARAGE AREA NOTIFYING ALL RESIDENTS AND VISITORS OF THE POTENTIAL OF FLOOD RISK.

DEMOLITION NOTES

- EXISTING UTILITIES, PAVEMENT, CURB, LANDSCAPING, BUILDING, WATER SERVICES, GAS SERVICES, ELECTRIC SERVICES, CONCRETE SIDEWALK, LIGHTING FEATURES, ETC. SHALL BE REMOVED, CAPPED, RECONSTRUCTED, AND/OR RELOCATED AS NECESSARY IN THE AREAS OF CONSTRUCTION.
- SITE LIGHTING, UNDERGROUND CONDUIT, WATER, GAS, TELEPHONE, SANITARY SEWER LATERALS AND STORM DRAINAGE ALL SHOWN IN APPROXIMATE LOCATIONS. THE CONTRACTOR SHALL VERIFY AND PROTECT ALL UTILITIES IN AREAS OF EXCAVATION.
- THE CONTRACTOR SHALL NOT REMOVE FROM SERVICE ANY UTILITY WITHOUT VERIFICATION THAT THE SERVICE HAS BEEN REQUIRED, CAPPED OR TAKEN OUT OF SERVICE. ROOF LEADERS, SANITARY SEWERS, GAS, ELECTRIC, TELEPHONE, WATER, SITE LIGHTING AND MISCELLANEOUS UTILITY SHALL REMAIN IN SERVICE AT ALL TIMES DURING CONSTRUCTION.
- THE CONTRACTOR SHALL BACKFILL ALL DEMOLITION TO SUBGRADE USING SUITABLE MATERIAL THAT SHALL BE APPROVED BY THE BOROUGH ENGINEER OR HIS FIELD REPRESENTATIVE AND SHALL PLACE AND COMPACT BACKFILL IN LIFTS TO ASSURE 95% PROCTOR.
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ROOF DRAIN SIZING DESIGN

TOTAL ROOF AREA = 0.54 AC.
 $Q_{25} = C i A = 0.98(6.0)(0.54) = 3.17$ cfs
 USE 12" SDR 35 PVC CAPACITY = 4.00 cfs

**STORES & SHOPPING CENTERS
 SANITARY SEWER CALCULATION**

25,705 S.F. (0.100 gpd/S.F.) = 2,571 gpd

**RESIDENTIAL APARTMENTS
 SANITARY SEWER CALCULATIONS**

- 1 BEDROOM APARTMENT - 34 UNITS @ 150 gpd/UNIT = 5,100 gpd
 - 2 BEDROOM APARTMENT - 38 UNITS @ 225 gpd/UNIT = 8,550 gpd
 - 3 BEDROOM APARTMENT - 3 UNITS @ 300 gpd/UNIT = 900 gpd
- TOTAL = 14,550 gpd

PROPOSED TOTAL SANITARY SEWER = 17,121 gpd

2x = 34,242 gpd DESIGN

EXISTING TOTAL SANITARY SEWER =

62,007 S.F. (0.100 gpd/S.F.) = 6,201 gpd

LATERAL CAPACITY

8" SDR 35 PVC @ 1.0% SLOPE HAS A CAPACITY OF 475,000 gpd AT HALF FULL PIPE DISCHARGE.

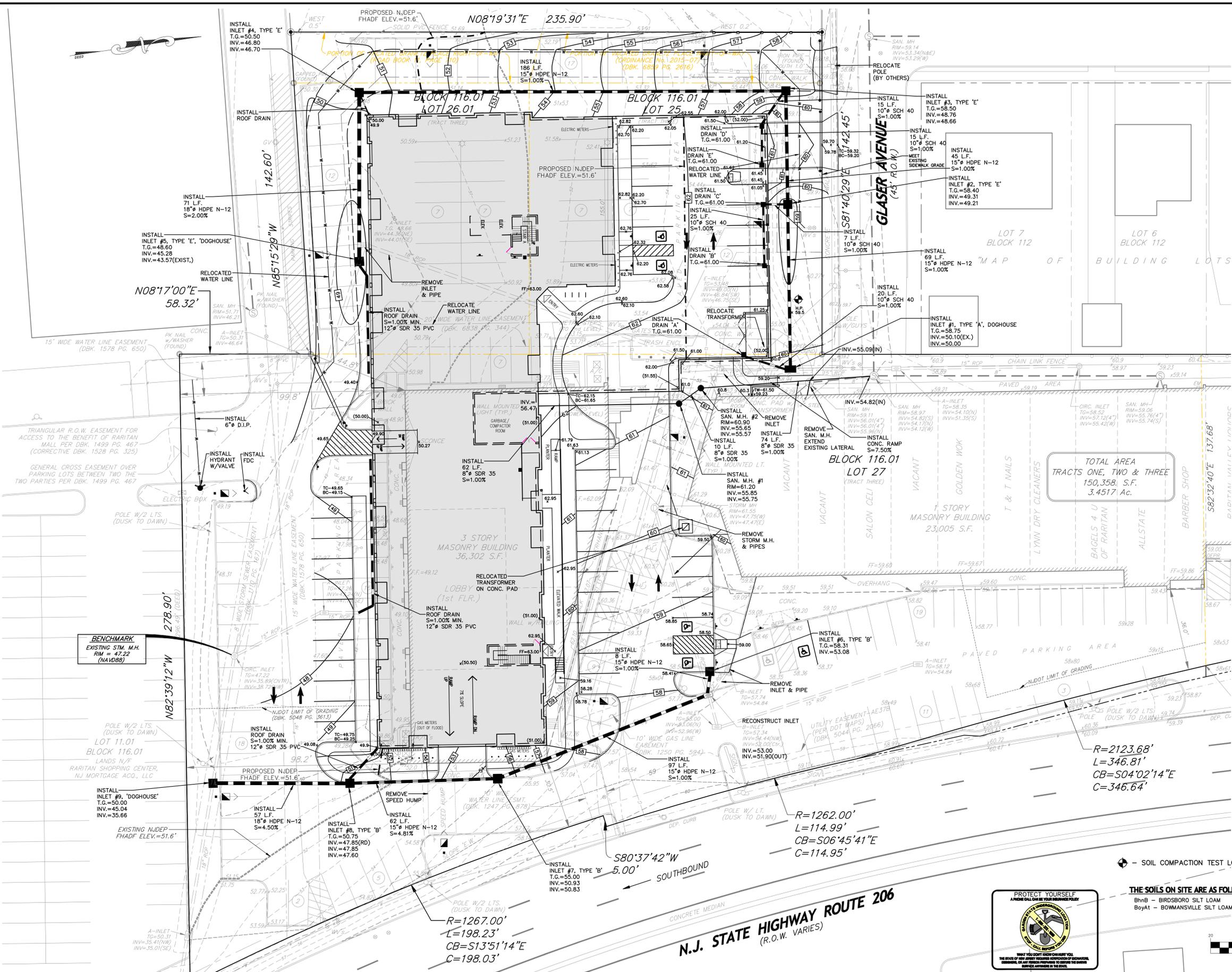
ADA COMPLIANT NOTES

- H.C. RAMPS TO BE PROVIDED WITH ADA RAILINGS, AS APPROPRIATE.
- CONCRETE SIDEWALKS TO HAVE A MAXIMUM CROSS-SLOPE OF 2% MAXIMUM, 1:48.
- H.C. RAMPS TO HAVE A MAXIMUM RUNNING SLOPE OF 1:12 OR 8.33%.
- CONTRACTOR CONSTRUCTING ANY ADA ACCESSIBLE IMPROVEMENT SHALL HAVE A PRE CONSTRUCTION MEETING WITH OWNER, ENGINEER, AND BOROUGH OFFICIAL RESPONSIBLE FOR IMPROVEMENT PRIOR TO CONSTRUCTION TO VERIFY SITE CONDITIONS AND PROPOSED IMPROVEMENT.

GRAPHIC SCALE



THE SOILS ON SITE ARE AS FOLLOWS:
 BnhB - BIRDSBORO SILT LOAM
 BoyAt - BOWMANVILLE SILT LOAM



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DATE	REVISION	BY
2/6/23	REVISED PER BOROUGH COMMENTS	SMT
1/3/23	REVISED PER BOROUGH COMMENTS	SMT


DAVID A. STIRES ASSOCIATES, L.L.C.
 ENGINEERS - SURVEYORS - PLANNERS - ENVIRONMENTALISTS
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GEORGE H. FOLK
 PROFESSIONAL ENGINEER
 N.J. LICENSE No. 35258
 DATE 10/10/22
CAUTION: If this document does not contain the raised impression seal of a Professional Engineer, it is not an authorized original document and may have been altered. Certificate of Authorization # 24CA2088800

GRADING AND UTILITIES PLAN
 DESIGNED BY: GHF
 DRAWN BY: SMT
 CHECKED BY: GHF
 SCALE: 1" = 20'
 PROJECT No. 15147
 SHEET NUMBER 6 of 12
 LOTS 25, 26.01, 27 & 27.01 BLOCK 116.01
 LOT 3 BLOCK 112
 BOROUGH OF RARITAN SOMERSET COUNTY NEW JERSEY

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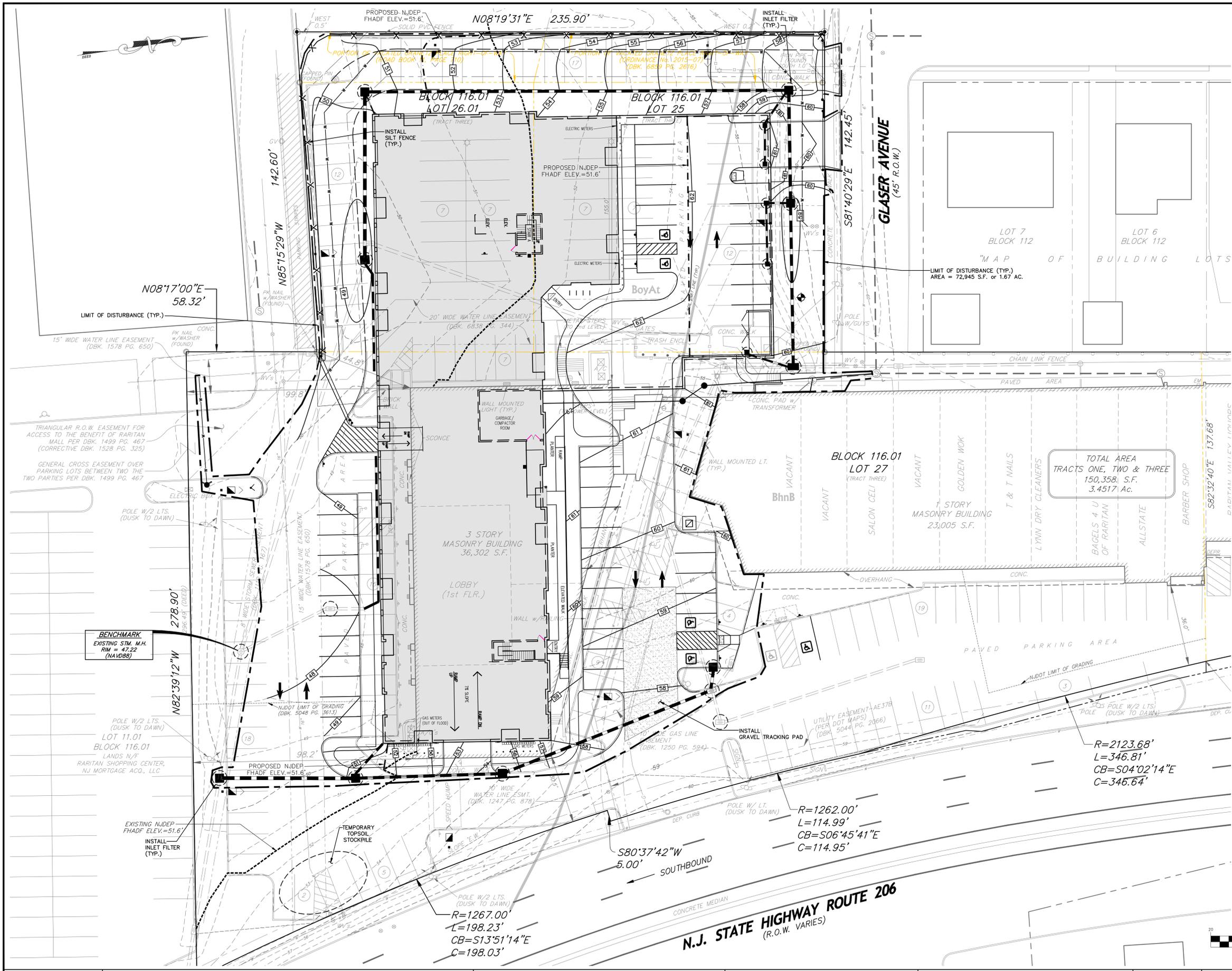
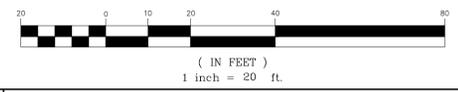
THE SOILS ON SITE ARE AS FOLLOWS:

BhnB - BIRDSBORO SILT LOAM (B)
 BoyAt - BOWMANVILLE SILT LOAM (B/D)

⊕ - SOIL COMPACTION TEST LOCATION



GRAPHIC SCALE



R=2123.68'
 L=346.81'
 CB=S04°02'14"E
 C=346.64'

R=1262.00'
 L=114.99'
 CB=S06°45'41"E
 C=114.95'

R=1267.00'
 L=198.23'
 CB=S13°51'14"E
 C=198.03'

S80°37'42"W
 5.00'
 SOUTHBOUND
 CONCRETE MEDIAN

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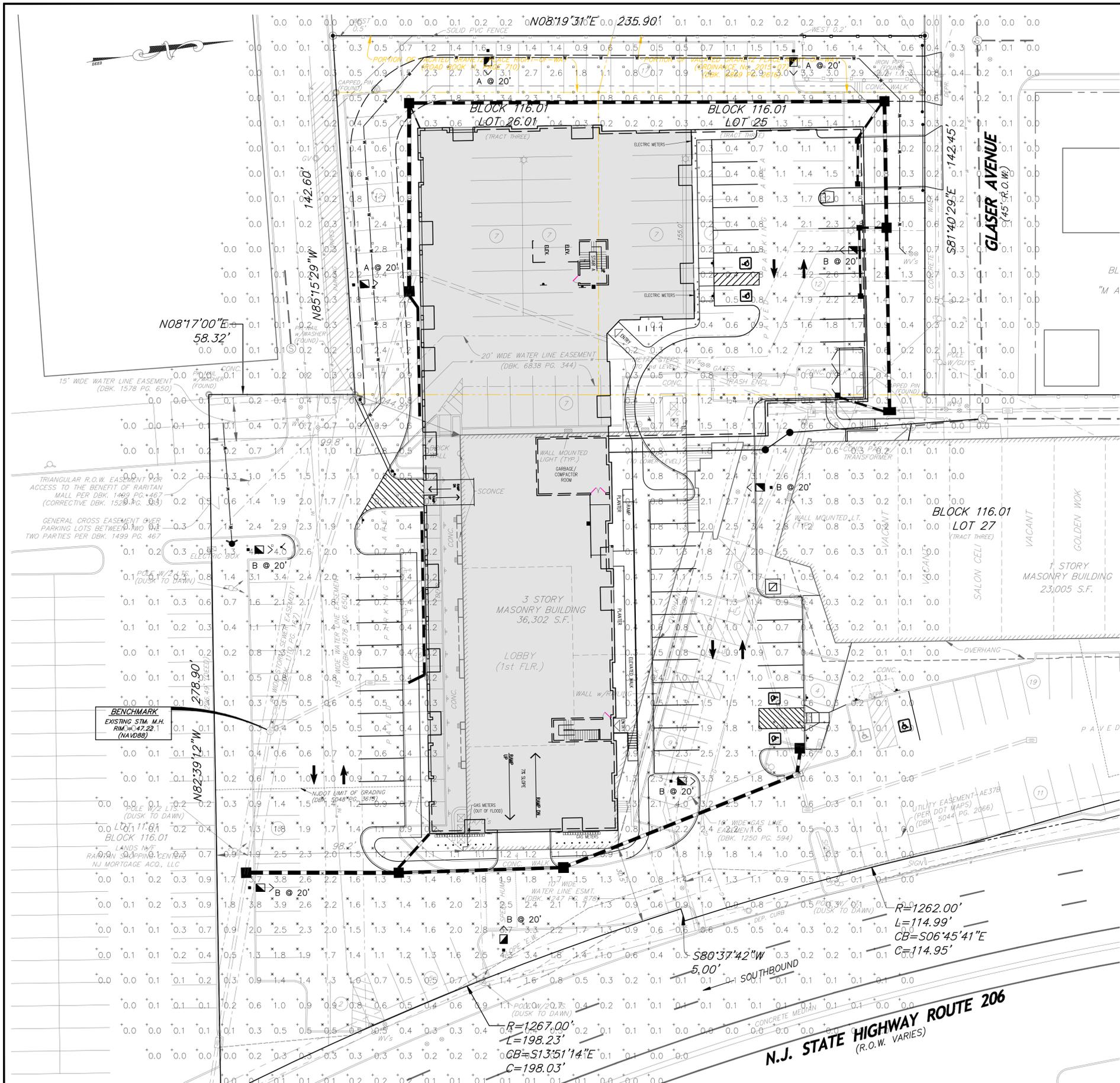
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 N.J. LICENSE No. 35258
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 Certificate of Authorization # 24CA2808800

DESIGNED BY: GHF
 DRAWN BY: SMT
 CHECKED BY: GHF
 SCALE: 1" = 20'

SOIL EROSION CONTROL PLAN
 LOTS 25, 26.01, 27 & 27.01 BLOCK 116.01
 LOT 3 BLOCK 112
 BOROUGH OF RARITAN SOMERSET COUNTY NEW JERSEY

PROJECT No. 15147
 SHEET NUMBER 7 OF 12

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Autobahn Series ATB0 Roadway Lighting

PRODUCT OVERVIEW

Features:

- OPTICAL:** The Autobahn's new molded silicone optic provides exceptional performance. Silicone optics are superior to other polymer materials in the areas of optical efficiency, thermal performance, and resistance to dirt accumulation. It is also resistant to long-term UV 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 clear and well-defined lighting distributions available. Silicone optics paired with modern LEDs allow the Autobahn to take full advantage of both technologies.
- Same Light Performance:** is comparable to 100-4000 WPS roadway luminaires.
- White Light:** Correlated color temperature - 4000K, or optional 2700K, 3000K or 2000K, all 70 CRI minimum.
- Unique IP64 rated LED light engines** provide this slight and restrict backlight to within sidewalk depths, providing optimal application coverage and optimal pole spacing. Available in Type A, B, T, and Roadway distributions.

Applications:

- Roadways
- Off ramps
- Residential streets
- Parking lots

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 40-60% over comparable HID luminaires.
- Robust Surge Protection: Two different surge protection options provide a minimum of ANSI C136.2 1000VAC protection. 200V surge protection is also available.
- Luminaire ships with a 10y demarable driver. Luminaire is continuous and step dimming capable via 40 option or controls installed on 77 photometric receptacle option.

Mechanical:

- Includes standard AEL Eeman-friendly features such as tool-less entry, 3 station terminal block and quick disconnects. Bubble level located inside the electrical compartment for easy leveling of luminaire.
- Rugged die-cast aluminum housing and door are polyester powder-coated for durability and corrosion resistance. Rugged five-stage pre-painting and painting process yields a finish that achieves a color coverage rating of 99% (ASTM D3154) after over 2000 hours exposure to salt fog chamber (operated per ASTM B117).
- Mount arm mount is adjustable for arms from 1-1/4" to 2" (1-5/8" to 2-3/8" O.D.) diameter. Provides 2.5 dBA vibration rating per ANSI C136.31.
- Weldable shield is cast into the housing (not a separate piece).

Standards:

DesignLight Consortium™ (DLC) Premium qualified product. Not all versions of this product may be DLC Premium qualified. Please check the DLC Qualified Products List at www.designlight.org to confirm which versions are qualified.

Color temperatures of 4000K must be specified for International Dark-Sky Association certification.

Rated for -40° to 40°C ambient.

CSA Certified to U.S. and Canadian standards.

Compliant with ANSI C136.2, C136.3, C136.4, C136.5, C136.6, C136.7, C136.8, C136.9, C136.10, C136.11, C136.12, C136.13, C136.14, C136.15, C136.16, C136.17, C136.18, C136.19, C136.20, C136.21, C136.22, C136.23, C136.24, C136.25, C136.26, C136.27, C136.28, C136.29, C136.30, C136.31, C136.32, C136.33, C136.34, C136.35, C136.36, C136.37, C136.38, C136.39, C136.40, C136.41, C136.42, C136.43, C136.44, C136.45, C136.46, C136.47, C136.48, C136.49, C136.50, C136.51, C136.52, C136.53, C136.54, C136.55, C136.56, C136.57, C136.58, C136.59, C136.60, C136.61, C136.62, C136.63, C136.64, C136.65, C136.66, C136.67, C136.68, C136.69, C136.70, C136.71, C136.72, C136.73, C136.74, C136.75, C136.76, C136.77, C136.78, C136.79, C136.80, C136.81, C136.82, C136.83, C136.84, C136.85, C136.86, C136.87, C136.88, C136.89, C136.90, C136.91, C136.92, C136.93, C136.94, C136.95, C136.96, C136.97, C136.98, C136.99, C136.100.

Controls:

- 100MA 3 pin photometric receptacle is standard, with the Acuity designed ANSI standard 7 pin receptacle available.
- Premium solid state lighting style photometric - PCS (10 year rated 100) Extreme long life rated state lighting style photometric - PCL (20 year rated).
- Optional onboard adjustable output module allows the light output and input voltage to be modified to meet specific requirements, and also can allow a single fixture to be flexibly applied in many different applications.

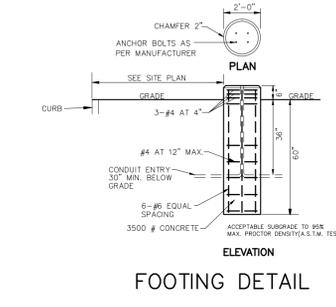
STATISTICS

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
ACCESS DRIVEWAY	□	1.6 fc	4.0 fc	0.4 fc	10.0:1	4.0:1
PARKING SUMMARY	×	1.4 fc	4.2 fc	0.4 fc	10.5:1	3.5:1
SPILL SUMMARY	+	0.4 fc	4.3 fc	0.0 fc	N/A	N/A

FIXTURE 'A' & 'B'

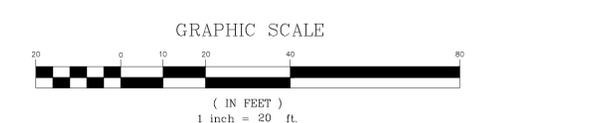
Lighting Notes:

- EXTERIOR LIGHTING SHALL BE SUBJECT TO THE REVIEW AND APPROVAL OF THE BOROUGH ENGINEERING DEPARTMENT AND, IF THE LIGHTING IS DEEMED TO BE INTRUSIVE OR DISTRACTING, THE APPLICANT SHALL BE REQUIRED TO SHIELD OR REDUCE THE LIGHTING INTENSITY.
- ALL PARKING LOT LIGHTING SHALL HAVE LED LAMPS WITH A LAMP-HOUSING DESIGN COMPATIBLE WITH EXISTING LIGHTS IN THE AREA.
- LIGHTS TO BE APPROPRIATELY SHIELDED.
- LIGHT POLE FOUNDATIONS TO BE AUGERED.



Schedule

Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Number Lamps	Lumens Per Lamp	Light Loss Factor	Total Lamp Lumens	Wattage	Distribution
▲	A	3	American Electric Lighting	ATB0 P202 R2 4K	Autobahn Small P202 Package Roadway Type II 4000K/5000K	1	7203	0.96	7203	49	TYPE II, MEDIUM, BUG RATING: B2 - U0 - G2
▲	B	6	American Electric Lighting	ATB0 P205 R4 4K	Autobahn Small P205 Package Roadway Type IV 4000K/5000K	1	13829	0.92	13829	102	TYPE IV, MEDIUM, BUG RATING: B2 - U0 - G3



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LOT 3 BLOCK 112
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