

**GENERAL NOTES**

1. 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.
2. ANY DISCREPANCIES IN REFERENCED COORDINATES, ELEVATIONS, EXISTING DIMENSIONS OR DETAILS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER OR OWNER'S REPRESENTATIVE BEFORE PROCEEDING WITH THE WORK.
3. 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.
4. ALL IMPROVEMENTS SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH THE MOST RECENT CONSTRUCTION STANDARDS OF THE BOROUGH OF RARITAN AND RSIS STANDARDS.
5. 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.
6. ALL PROPOSED UTILITIES SHALL BE PLACED UNDERGROUND.
7. THE SITE DOES NOT CONTAIN ANY FRESHWATER WETLAND AREAS NOR IS IT SUBJECT TO ANY OFF TRACT TRANSITION AREAS.
8. SOILS ON SITE ARE: BnH-BIRDSBORO SILT LOAM & BoyAt-BOWMANVILLE SILT LOAM.
9. SITE IS CURRENTLY SERVICED BY SANITARY SEWER, WATER, GAS, ELECTRIC & TELEPHONE.
10. A KNOX BOX SHALL BE INSTALLED AT THE PROPERTY SUBJECT TO THE REVIEW AND APPROVAL OF THE BOROUGH FIRE CODE OFFICIAL.
11. TOTAL LAND DISTURBANCE = 72,945 S.F. or 1.67 AC.
12. DETECTABLE WARNING SURFACE SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT ADA STANDARDS.
13. ALL SITE WORK SHALL BE IN ACCORDANCE WITH THE NJDOT STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES.
14. THE PROPOSED APARTMENT BUILDING IS TO BE FULLY SPRINKLERED.
15. RECYCLING AND GARBAGE REMOVAL IS TO BE PROVIDED BY A PRIVATE CARTER.
16. PROPOSED BUILDING DIMENSIONS TO BE VERIFIED WITH ARCHITECT PRIOR TO CONSTRUCTION.
17. REDUCTION OF IMPERVIOUS COVERAGE EQUALS 10,498 S.F.
18. ELECTRIC VEHICLE CHARGING STATIONS TO BE WITHIN THE PARKING GARAGE.
19. SIGNAGE SHALL BE POSTED WITHIN THE PARKING GARAGE AREA NOTIFYING ALL RESIDENTS AND VISITORS OF THE POTENTIAL OF FLOOD RISK.

**DEMOLITION NOTES**

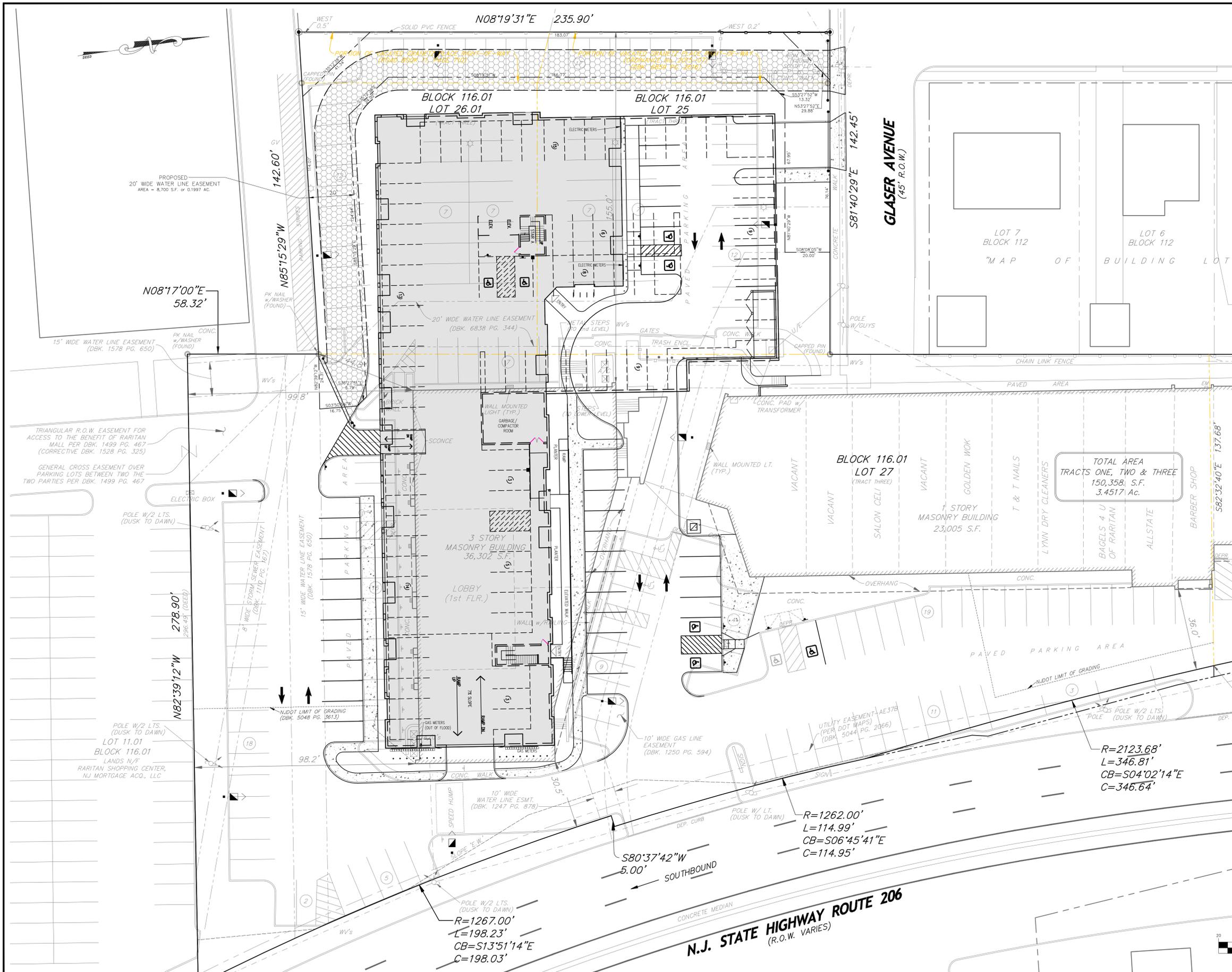
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2. SITE LIGHTING, UNDERGROUND CONDUIT, WATER, GAS, TELEPHONE, SANITARY SEWER LATERALS AND STORM DRAINAGE ALL SHOWN IN APPROXIMATE LOCATIONS. THE CONTRACTOR SHALL VERIFY AND PROTECT ALL UTILITIES IN AREAS OF EXCAVATION.
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4. 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.
5. ALL EXISTING IMPROVEMENTS THAT ARE IN CONFLICT WITH PROPOSED IMPROVEMENTS ARE TO BE REMOVED OR RELOCATED TO ALLOW THE PROJECT TO PROCEED.

**ADA COMPLIANT NOTES**

1. H.C. RAMPS TO BE PROVIDED WITH ADA RAILINGS, AS APPROPRIATE.
2. CONCRETE SIDEWALKS TO HAVE A MAXIMUM CROSS-SLOPE OF 2% MAXIMUM, 1:48.
3. H.C. RAMPS TO HAVE A MAXIMUM RUNNING SLOPE OF 1:12 OR 8.33%.
4. 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



PROPOSED 20' WIDE WATER LINE EASEMENT AREA = 8,700 S.F. or 0.1997 AC.

TRIANGULAR R.O.W. EASEMENT FOR ACCESS TO THE BENEFIT OF RARITAN MALL PER DBK. 1499 PG. 467 (CORRECTIVE DBK. 1528 PG. 325)

GENERAL CROSS EASEMENT OVER PARKING LOTS BETWEEN THE TWO PARTIES PER DBK. 1499 PG. 467

TOTAL AREA TRACTS ONE, TWO & THREE 150,358 S.F. 3.4517 Ac.

BLOCK 116.01 LOT 27 (TRACT THREE)

VACANT GOLDEN WOK 1 STORY MASONRY BUILDING 23,005 S.F.

POLE W/2 LTS. (DUSK TO DAWN)  
R=1267.00'  
L=198.23'  
CB=S13°51'14"E  
C=198.03'

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

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

N.J. STATE HIGHWAY ROUTE 206 (R.O.W. VARIES)

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

**DAS**  
DAVID A. STIRES ASSOCIATES, L.L.C.  
ENGINEERS - SURVEYORS - PLANNERS - ENVIRONMENTALISTS

678 US HWY 202/206 N. SUITE 6  
BRIDGEWATER, N.J. 08807  
PHONE: (908)252-7000  
www.dastires.com

GEORGE H. FOLK  
PROFESSIONAL ENGINEER  
N.J. LICENSE No. 35258  
DATE 10/10/22

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

HORIZONTAL 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 5 OF 12

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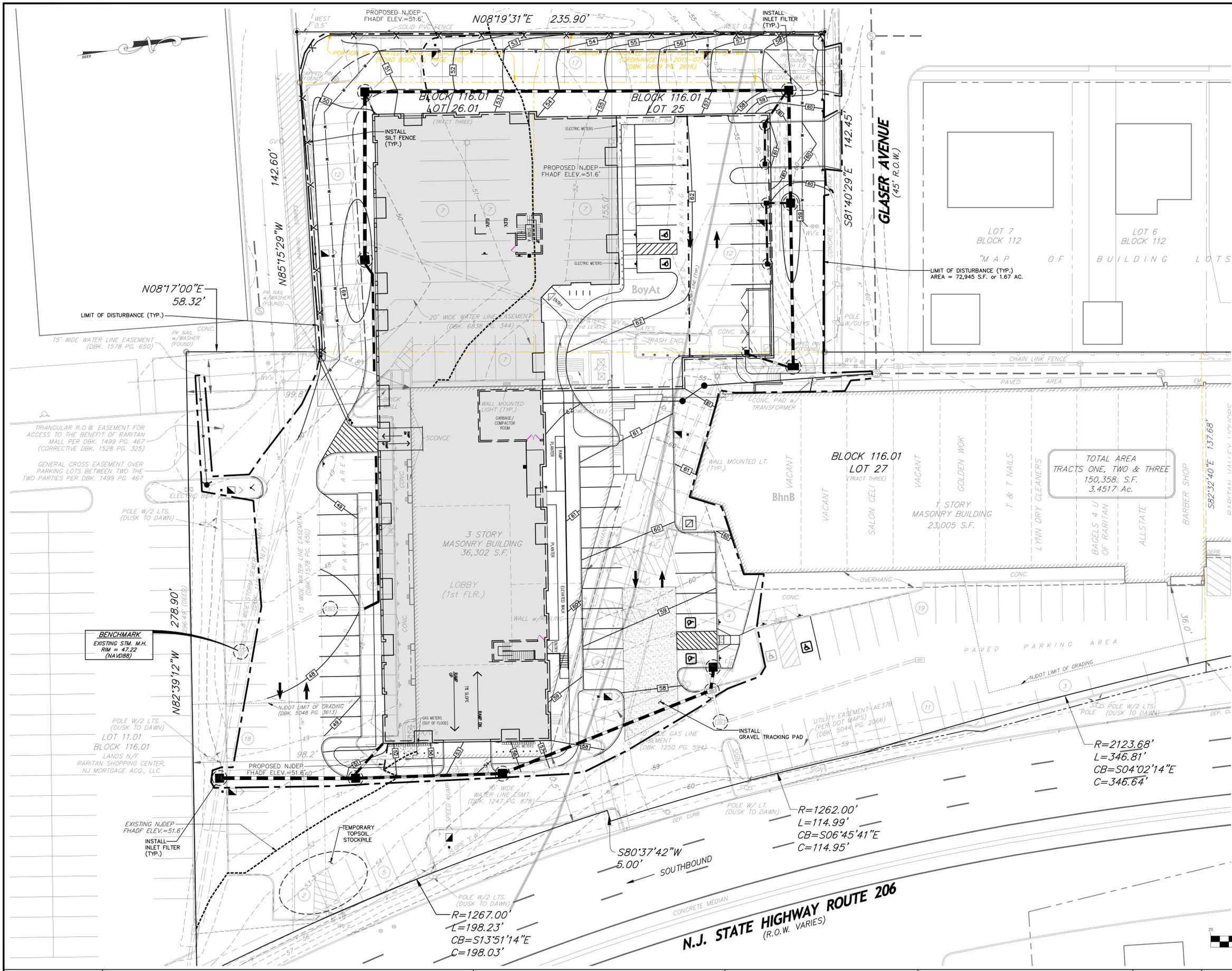
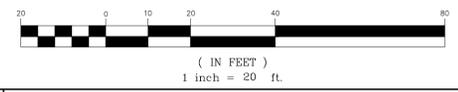
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**GRAPHIC SCALE**



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$R=1267.00'$   
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 $CB=S13^{\circ}51'14''E$   
 $C=198.03'$

$S80^{\circ}37'42''W$   
 $5.00'$   
 SOUTHBOUND

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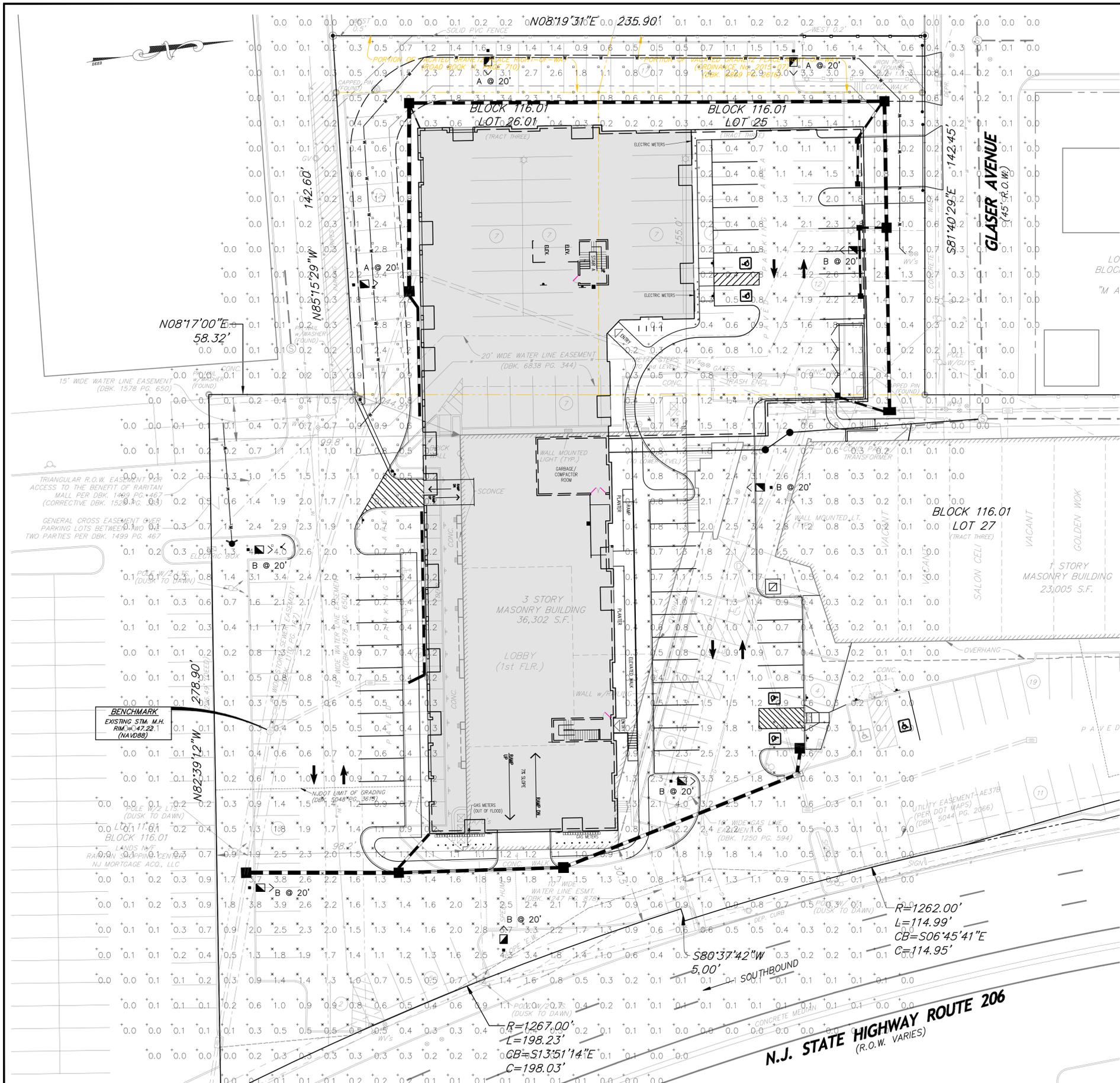
GEORGE H. FOLK  
 PROFESSIONAL ENGINEER  
 N.J. LICENSE No. 35258  
 DATE 10/10/22  
 Certificate of Authorization # 24CA2808800

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 W/m<sup>2</sup> roadway luminaires.
- White Light:** Correlated color temperature - 4000K, or optional 2700K, 3000K or 5000K, 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, H, H, and Roadway distributions.

**Applications:**

- Roadways
- Off ramps
- Residential streets
- Parking lots

**ELECTRICAL:**

- Expected life: LED light engines are rated at 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 10-year dimmable driver. Luminaire is continuous and stop dimming capable via 40 option or controls installed on 77 photometric receptacle option.

**MECHANICAL:**

- Includes standard AEL E-man friendly features such as tool-less entry, 3 station terminal block and quick disconnects. Bubble level located inside the electrical compartment for easily leveling in installation.
- Rugged die-cast aluminum housing and door are polyester powder-coated for durability and corrosion resistance. Rigorous five-stage pre-painting and painting process yields a finish that achieves a color coverage rating of 100% (ASTM D1545) 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 a 250 lb. tension rating per ANSI C136.11.
- Widely shield is cast into the housing (not a separate piece).

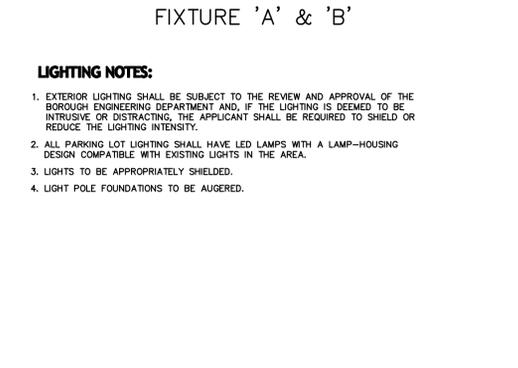
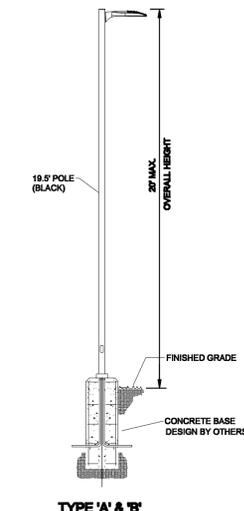
**STANDARDS:**

Designs lights to meet or exceed the following standards:

- ANSI C136.2 - 1000VAC protection
- ANSI C136.11 - 250 lb. tension rating
- ANSI C136.15 - 200V surge protection
- ANSI C136.17 - 200V surge protection
- ANSI C136.21 - 200V surge protection
- ANSI C136.22 - 200V surge protection
- ANSI C136.23 - 200V surge protection
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**CONTROLS:**

- ANSI C136.21 - 200V surge protection
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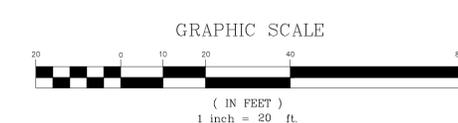


**Statistics**

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

**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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1/23/23	REVISED PER BOROUGH COMMENTS	SMT

**DAS**

**DAVID A. STIRES ASSOCIATES, LLC.**

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, it is not an authorized original document and may have been altered.

Certificate of Authorization #: 24CA2008800

DESIGNED BY: GHF  
DRAWN BY: SMT  
CHECKED BY: GHF

SCALE: 1" = 20'

**LIGHTING PLAN**

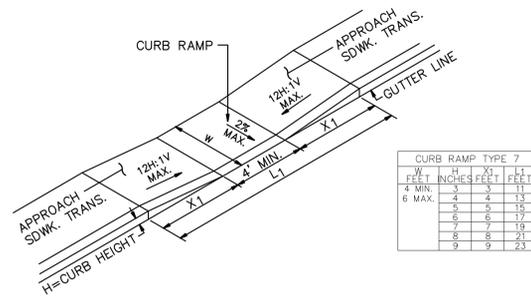
PROJECT No. 15147

SHEET NUMBER 8 OF 12

BOROUGH OF RARITAN SOMERSET COUNTY NEW JERSEY

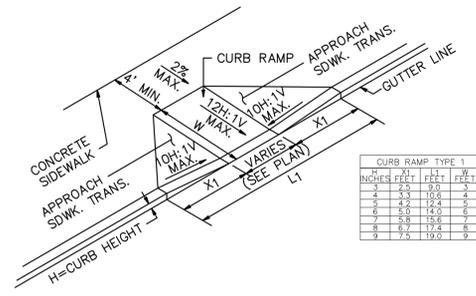
LOTS 25, 26.01, 27 & 27.01 BLOCK 116.01  
LOT 3 BLOCK 112





HANDICAP RAMP TYPE 7 CURB DEPRESSION DETAIL

CURB RAMP TYPE 7			
H	L1	L2	L3
FEET	INCHES	FEET	FEET
4 MIN	3	3	11
4 MAX	4	4	13
5	5	5	15
6	6	6	17
7	7	7	19
8	8	8	21
9	9	9	23

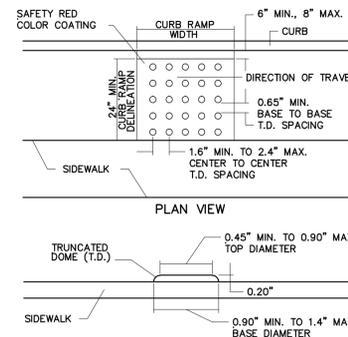


HANDICAP RAMP TYPE 1 CURB DEPRESSION DETAIL

CURB RAMP TYPE 1			
H	L1	L2	L3
INCHES	FEET	FEET	FEET
4	3	3	3
5	3	3	4
6	4	4	5
7	4	4	6
8	5	5	7
9	6	6	8
10	7	7	9

GENERAL NOTES:

1. LANDING AREA, APPROACH SIDEWALK TRANSITIONS, AND CURB RAMP SHALL BE KEPT CLEAR OF OBSTRUCTIONS.
2. DIMENSIONS SHOWN IN TABLES ARE FOR RELATIVELY FLAT SIDEWALK AREAS. CARE SHOULD BE TAKEN WHEN DETERMINING CURB RAMP SIZE BASED ON CURB HEIGHT (H) WHERE ELEVATION OF CURB AND SIDEWALK VARY DRASTICALLY IN AREA OF PROPOSED CURB RAMP.
3. CURB (DROPPED CURB) GUTTERLINE TO BE FLUSH WITH ROADWAY PAVEMENT A MINIMUM OF 4 FEET AT ALL CURB RAMP.
4. DIMENSIONS SHOWN IN TABLES ARE FOR 3 INCH TO 9 INCH CURB HEIGHTS, WHERE THE CURB HEIGHTS ARE OTHER THAN WHAT IS PROVIDED IN THE TABLES, THE DIMENSIONS OF THE RAMP WILL HAVE TO BE CALCULATED BASED ON CROSS SLOPES SHOWN.



DETECTABLE WARNING SURFACE



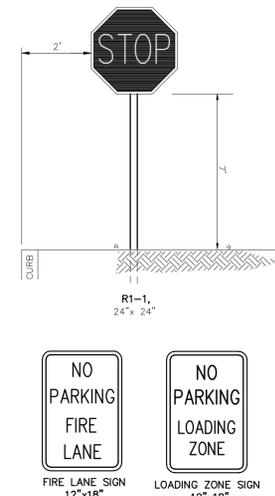
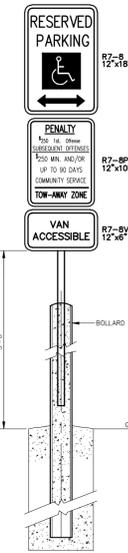
HEIGHT OF SYMBOL:  
MINIMUM = 28 INCHES  
SPECIAL = 41 INCHES

WIDTH OF SYMBOL:  
MINIMUM = 24 INCHES  
SPECIAL = 36 INCHES

\*STROKE WIDTH:  
MINIMUM = 3 INCHES  
SPECIAL = 4 INCHES

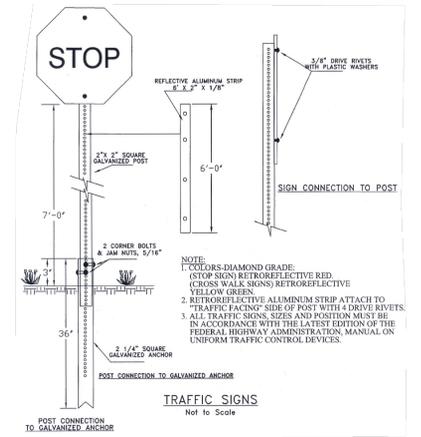
NOTE: BLUE BACKGROUND AND WHITE BORDER ARE OPTIONAL

ACCESSIBILITY PARKING SPACE MARKING



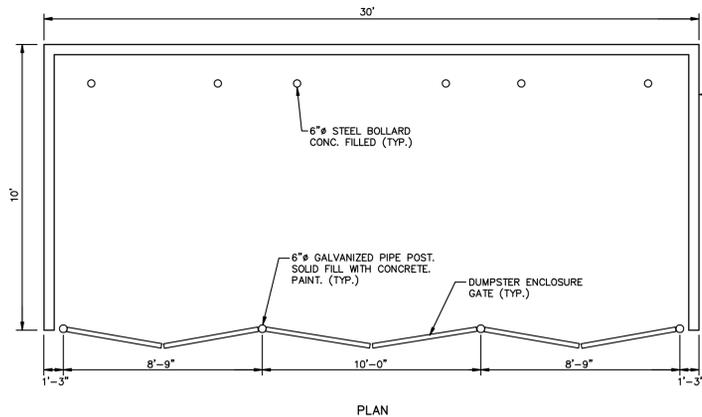
SIGN DETAILS

NOTE: BREAKAWAY MOUNTING HARDWARE SHALL BE USED POST PER NJDOT SPECIFICATIONS



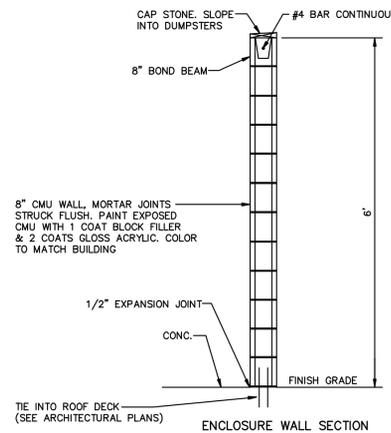
TRAFFIC SIGNS

Not to Scale

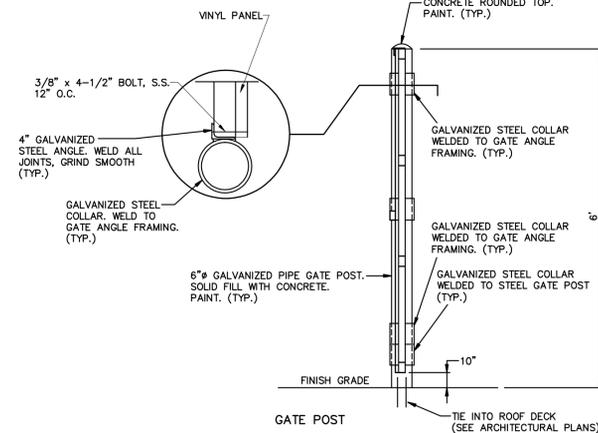


PLAN

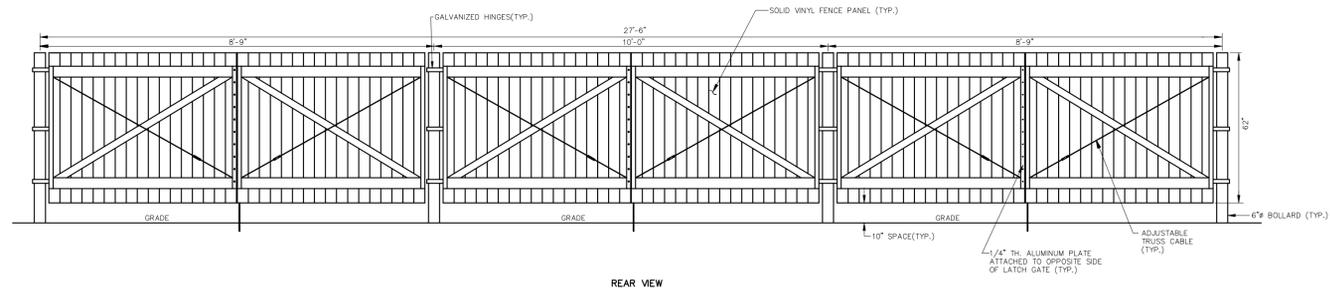
8" CMU WALL, MORTAR JOINTS STRUCK FLUSH, PAINT EXPOSED CMU WITH 1 COAT BLOCK FILLER & 2 COATS GLOSS ACRYLIC COLOR TO MATCH BUILDING.



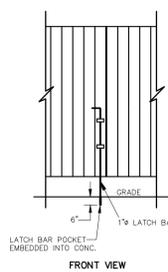
ENCLOSURE WALL SECTION



GATE POST

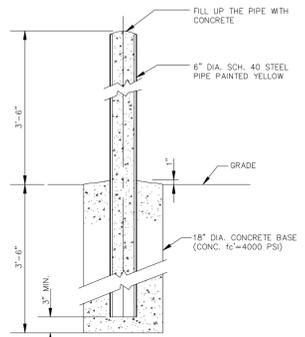


REAR VIEW  
SOLID VINYL GATES FOR DUMPSTER ENCLOSURE



FRONT VIEW

DUMPSTER DETAILS



BOLLARD DETAIL

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SCALE: NONE

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