TOWNSHIP of HOPEWELL
MERCER COUNTY

201 WASHINGTON CROSSING – PENNINGTON ROAD
TITUSVILLE, NEW JERSEY 08560-1410

PROJECT / APPLICATION

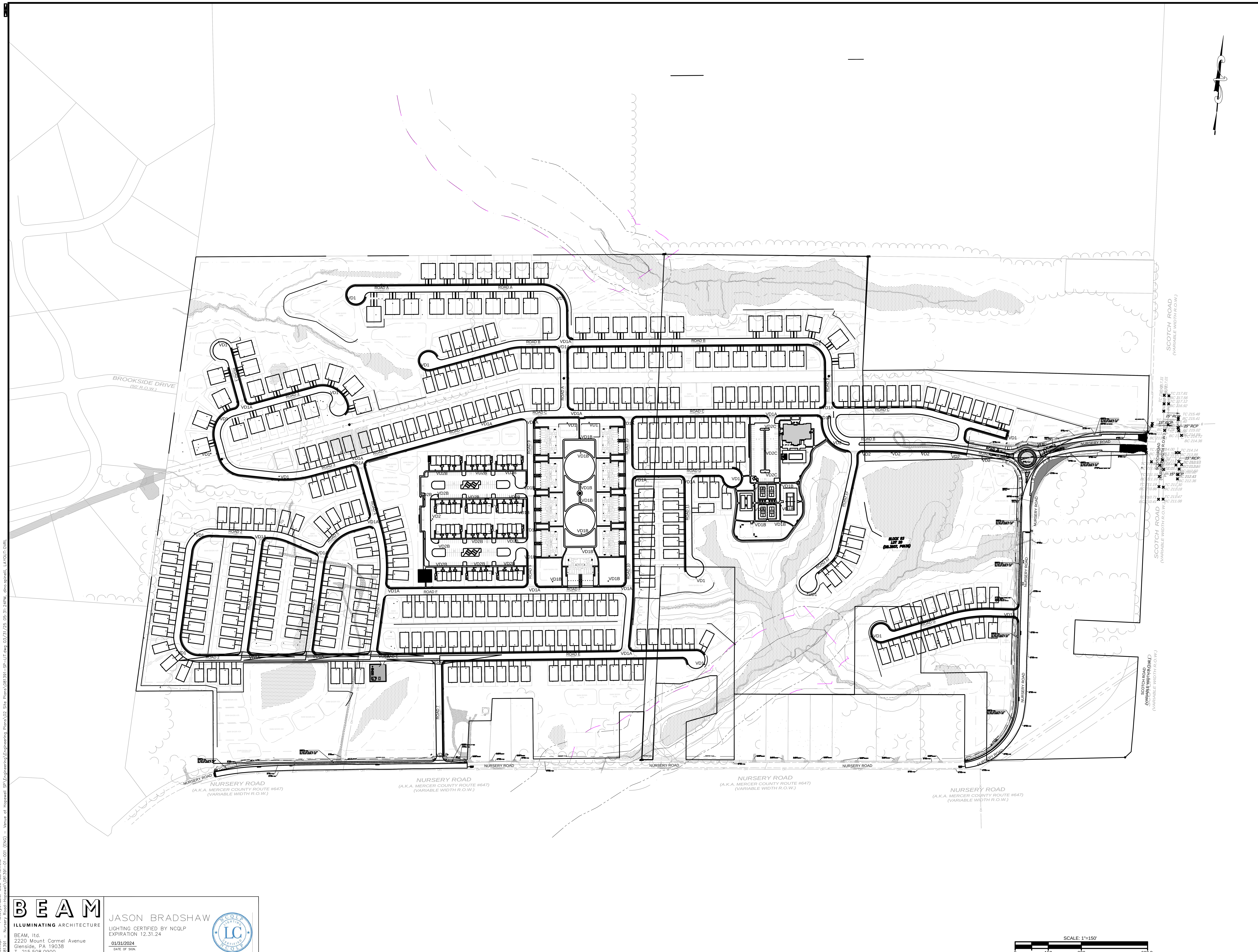
BLOCK: 93

LOT: 19, 20, 45.01, 46, p/o 60

ADDRESS: 61 NURSERY RD., SCOTCH RD., NURSERY RD., NURSERY RD., 137 NURSERY RD.

PROJECT NAME: MAJOR SUBDIVISION, PRELIMINARY/FINAL AND SITE PLAN, PRELIMINARY/FINAL (VENUE AT HOPEWELL)

LIGHTING PLAN 4.2.25



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01/31/2024
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4	REVISED PER TOWNSHIP COMMENTS	03/31/25	SAD
3	REVISED PER ENGINEERING REVIEW	2/14/25	SAD
2	REVISED PER TOWNSHIP COMMENTS	12/18/24	SAD
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NJ Certificate of Authorization
No. 24GA28222600
SEAN A. DELANY, N.J. Professional Engineer, Lic. 24GE04447100

PRELIMINARY AND FINAL MAJOR SUBDIVISION &
PRELIMINARY AND FINAL SITE PLAN FOR
VENUE AT HOPEWELL
OVERALL SITE LIGHTING PLAN
BLOCK 93, LOTS 19, 20, 45.01, 46 & 60
TOWNSHIP OF HOPEWELL, MERCER COUNTY, NEW JERSEY

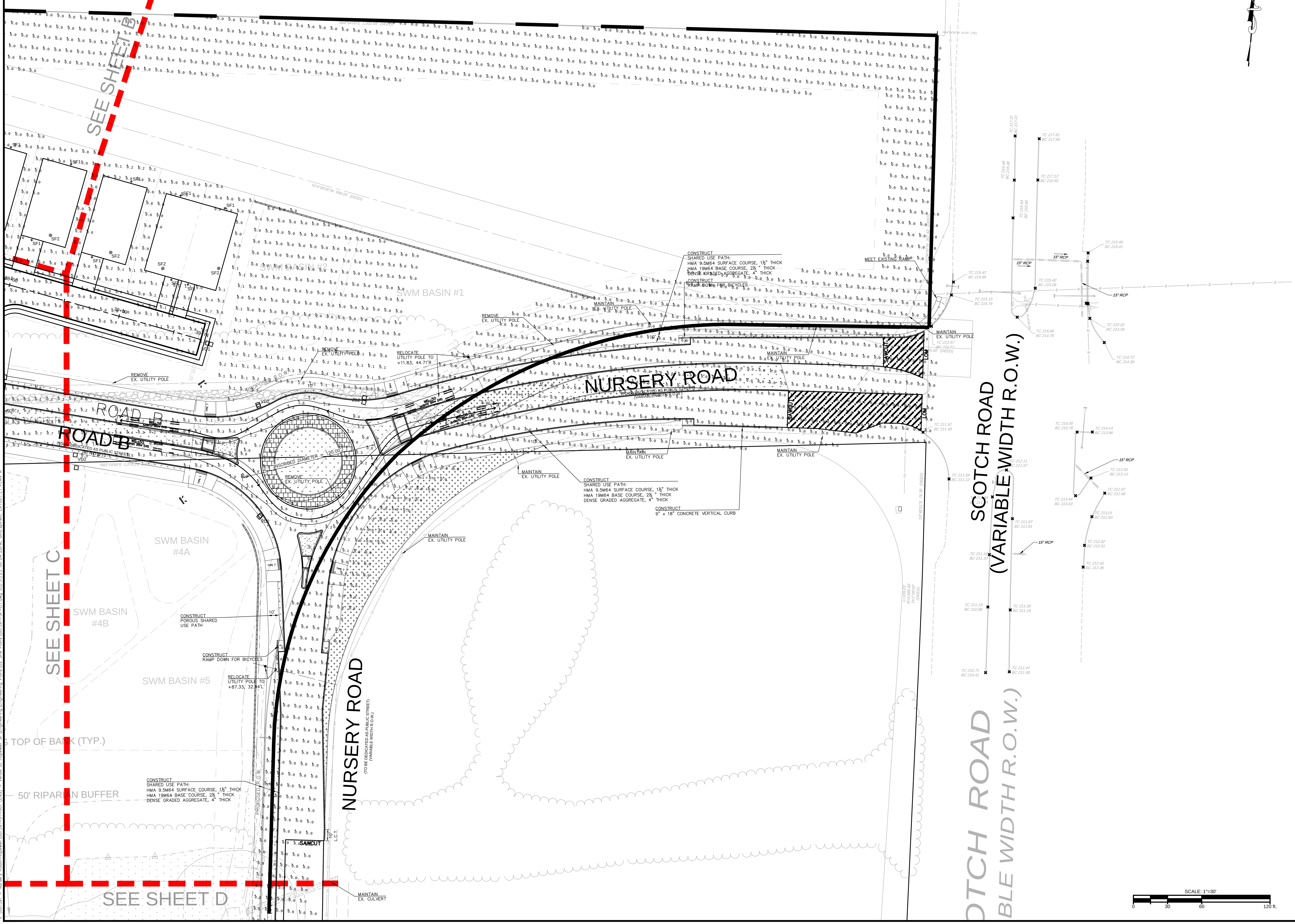
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PRELIMINARY AND FINAL MAJOR SUBDIVISION &
PRELIMINARY AND FINAL SITE PLAN FOR
VENUE AT HOPEWELL
ENLARGED SITE LIGHTING PLAN -
AREA A (MAINTAINED)
BLOCK 93, LOTS 19, 20, 45.01, 46 & 60
TOWNSHIP OF HOPEWELL, MERCER COUNTY, NEW JERSEY

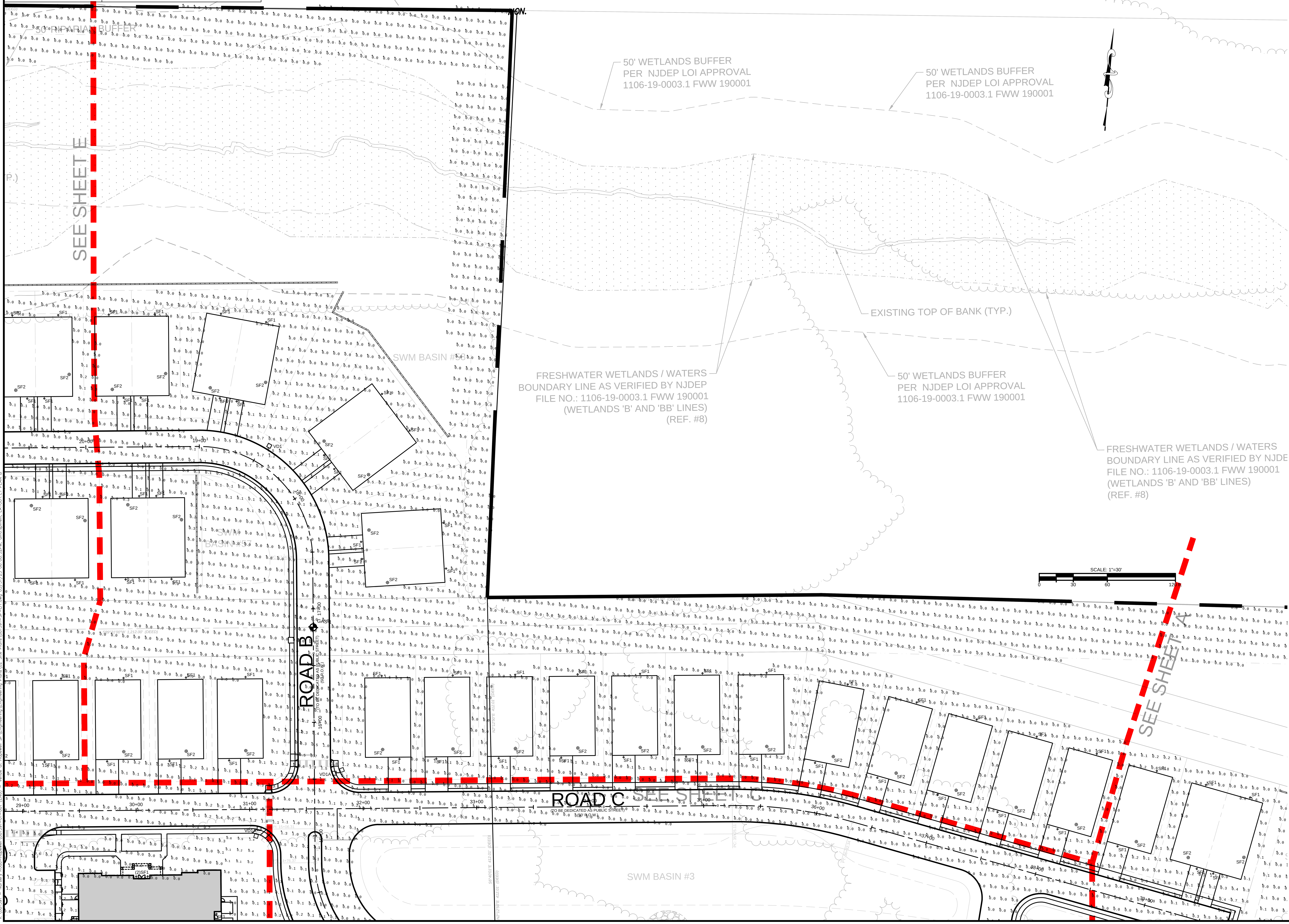
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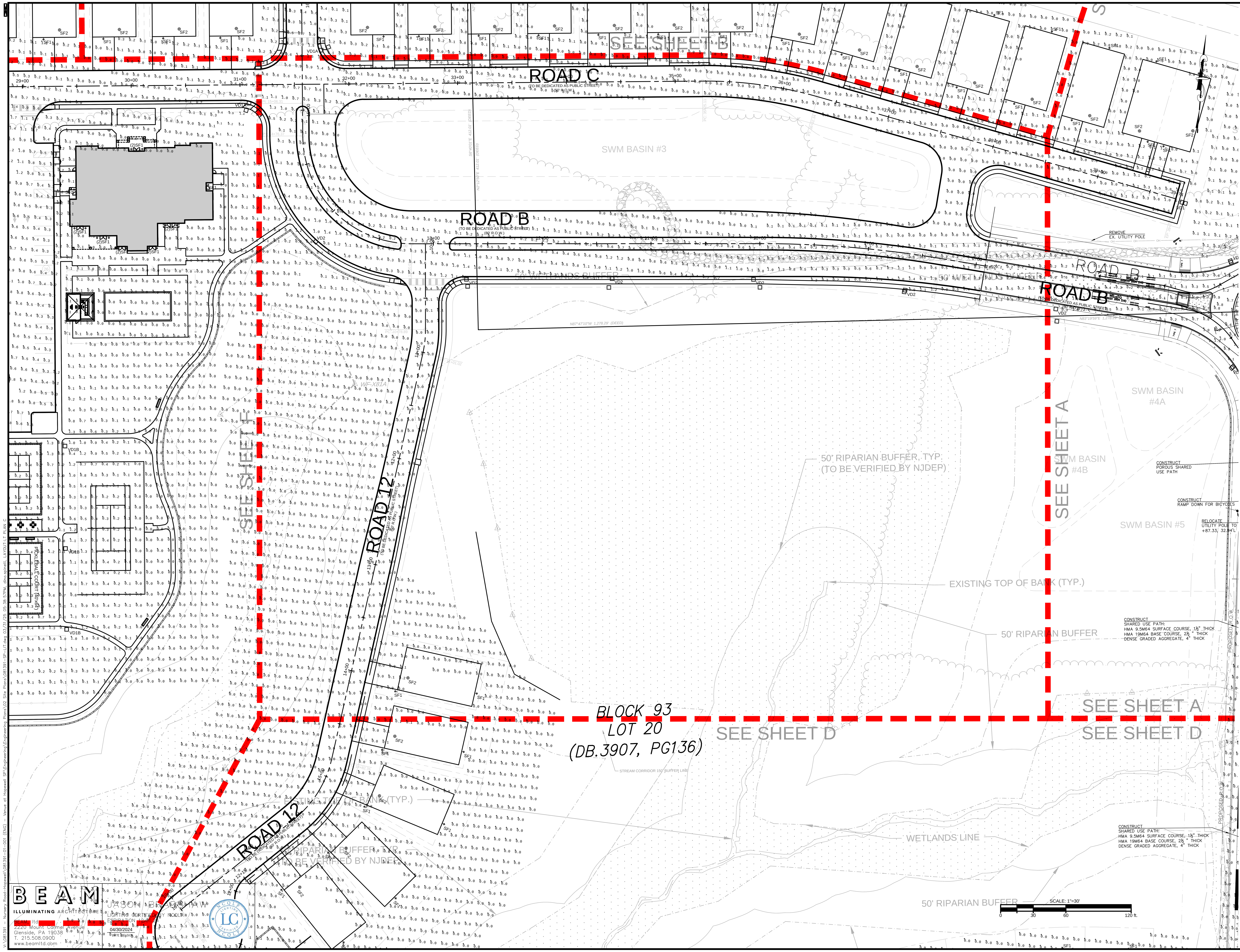
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PRELIMINARY AND FINAL MAJOR SUBDIVISION & PRELIMINARY AND FINAL SITE PLAN FOR
VENUE AT HOPEWELL
ENLARGED SITE LIGHTING PLAN - AREA B (MAINTAINED)
BLOCK 93, LOTS 19, 20, 45.01, 46 & 60
TOWNSHIP OF HOPEWELL, MERCER COUNTY, NEW JERSEY

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PRELIMINARY AND FINAL MAJOR SUBDIVISION &
PRELIMINARY AND FINAL SITE PLAN FOR

VENUE AT HOPEWELL
ENLARGED SITE LIGHTING PLAN - AREA C (MAINTAINED)

BLOCK 93, LOTS 19, 20, 45.01, 46 & 60
TOWNSHIP OF HOPEWELL, MERCER COUNTY, NEW JERSEY

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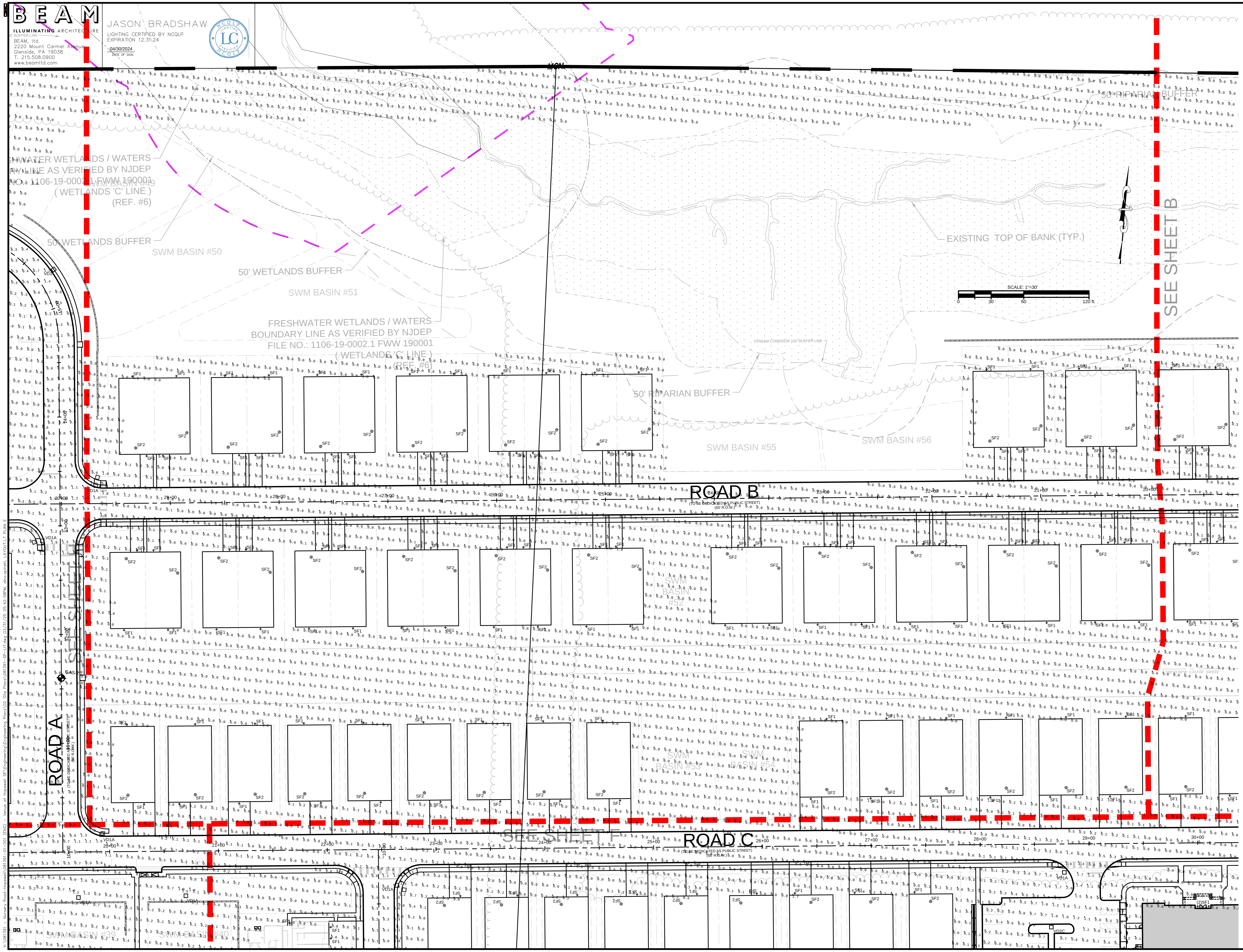
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PRELIMINARY AND FINAL MAJOR SUBDIVISION & PRELIMINARY AND FINAL SITE PLAN FOR
VENUE AT HOPEWELL
ENLARGED SITE LIGHTING PLAN - AREA D (MAINTAINED)
BLOCK 93, LOTS 19, 20, 45.01, 46 & 60
TOWNSHIP OF HOPEWELL, MERCER COUNTY, NEW JERSEY

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PRELIMINARY AND FINAL MAJOR SUBDIVISION &
PRELIMINARY AND FINAL SITE PLAN FOR

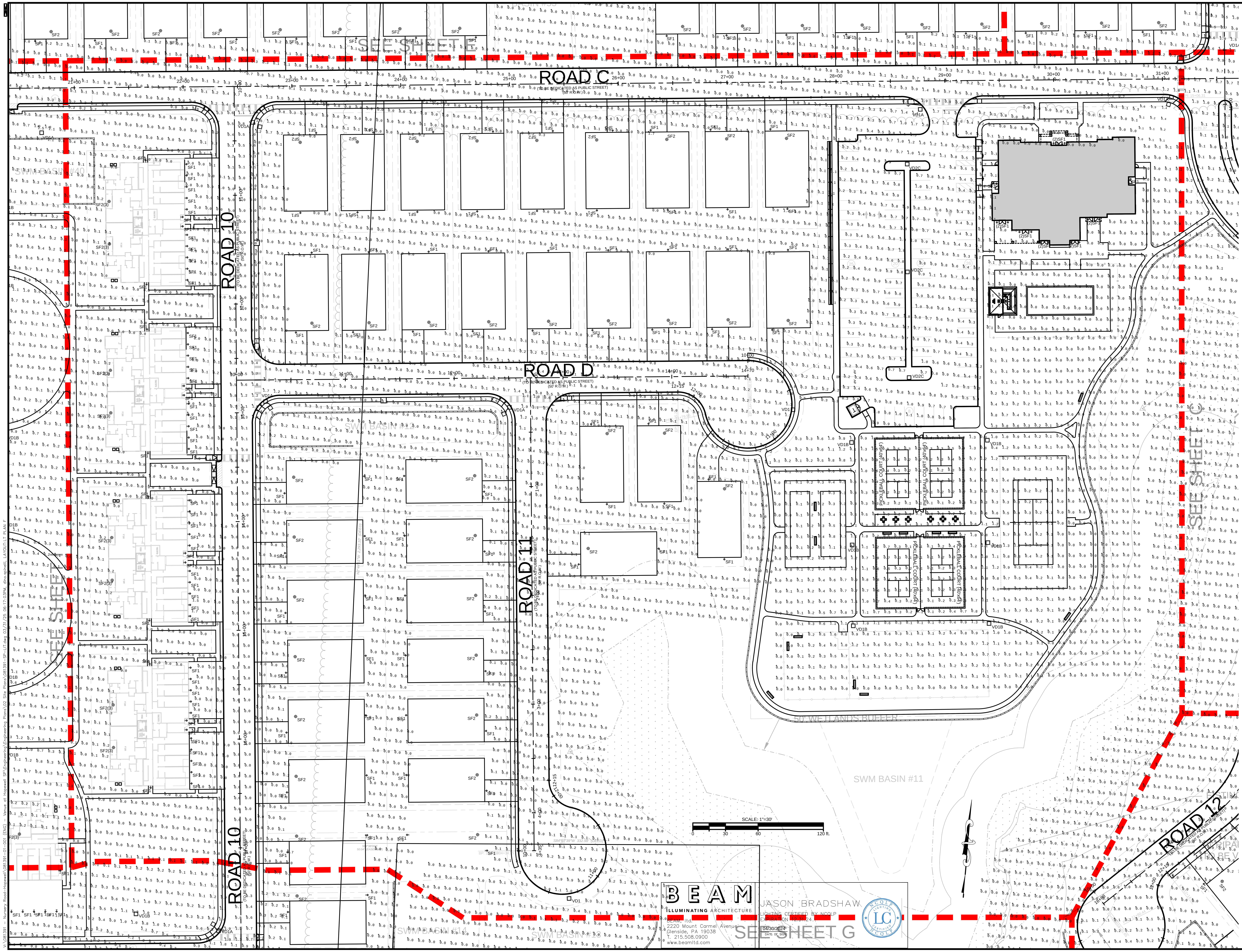
VENUE AT HOPEWELL

ENLARGED SITE LIGHTING PLAN - AREA E (MAINTAINED)

BLOCK 93, LOTS 19, 20, 45.01, 46 & 60
TOWNSHIP OF HOPEWELL, MERCER COUNTY, NEW JERSEY

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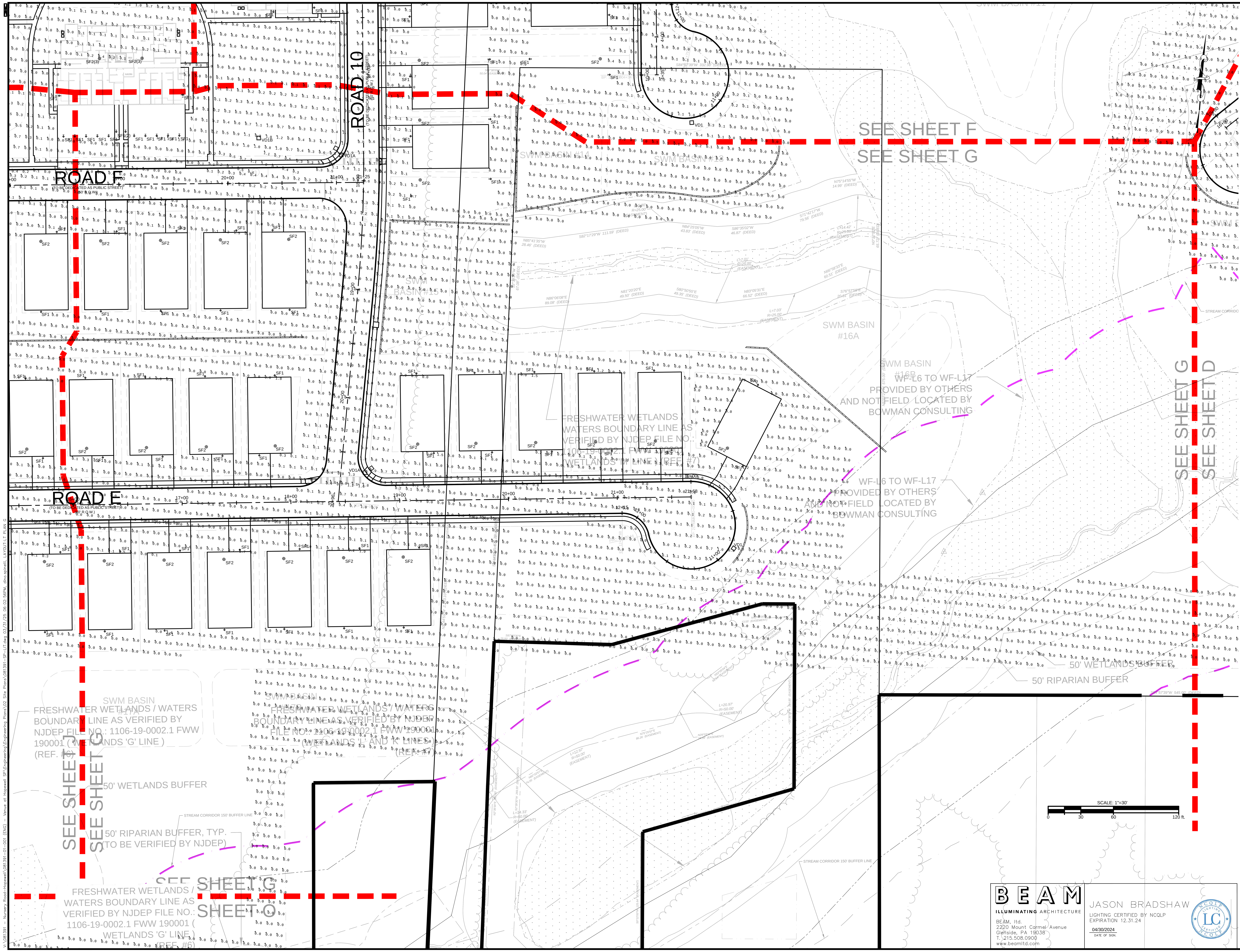
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PRELIMINARY AND FINAL MAJOR SUBDIVISION &
PRELIMINARY AND FINAL SITE PLAN FOR

VENUE AT HOPEWELL
ENLARGED SITE LIGHTING PLAN - AREA F (MAINTAINED)

BLOCK 93, LOTS 19, 20, 45.01, 46 & 60
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PRELIMINARY AND FINAL MAJOR SUBDIVISION &
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VENUE AT HOPEWELL
ENLARGED SITE LIGHTING PLAN - AREA G (MAINTAINED)
BLOCK 93, LOTS 19, 20, 45.01, 46 & 60
TOWNSHIP OF HOPEWELL, MERCER COUNTY, NEW JERSEY

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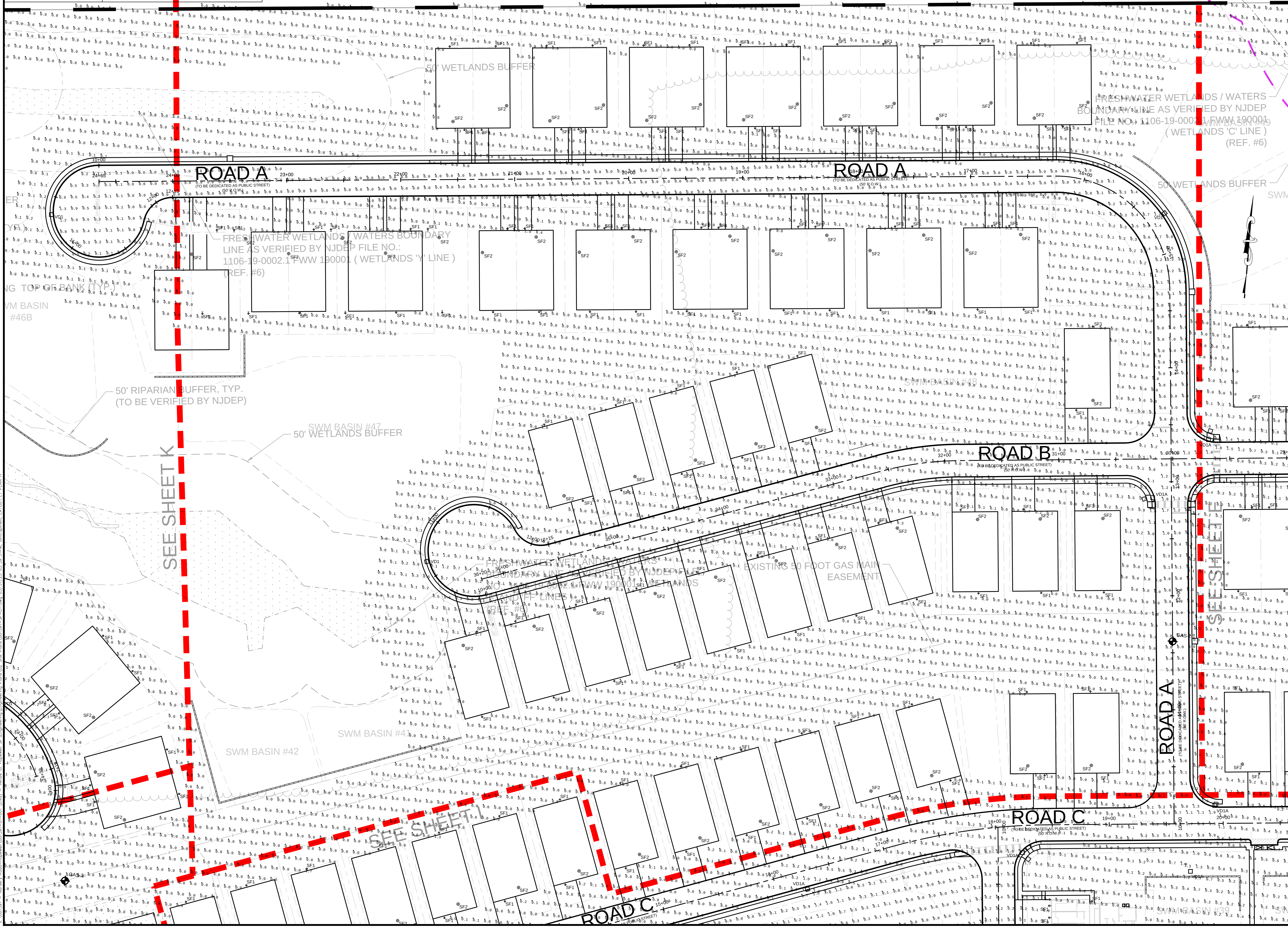
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PRELIMINARY AND FINAL MAJOR SUBDIVISION & PRELIMINARY AND FINAL SITE PLAN FOR

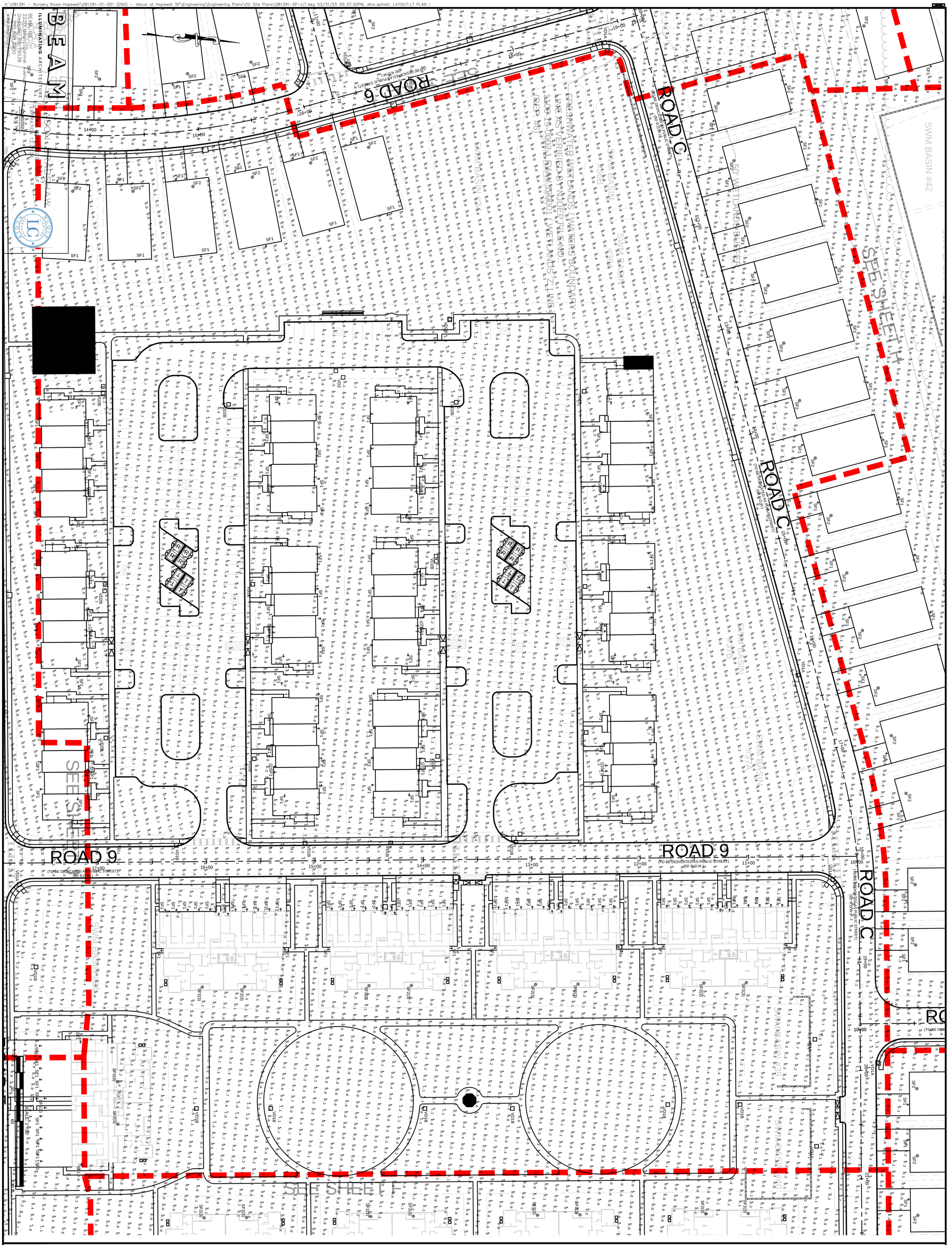
VENUE AT HOPEWELL

ENLARGED SITE LIGHTING PLAN - AREA H (MAINTAINED)

BLOCK 93, LOTS 19, 20, 45.01, 46 & 60
TOWNSHIP OF HOPEWELL, MERCER COUNTY, NEW JERSEY

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PRELIMINARY AND FINAL MAJOR SUBDIVISION &
PRELIMINARY AND FINAL SITE PLAN FOR

VENUE AT HOPEWELL

ENLARGED SITE LIGHTING PLAN - AREA I (MAINTAINED)

BLOCK 93, LOTS 19, 20, 45.01, 46 & 60

TOWNSHIP OF HOPEWELL, MERCER COUNTY, NEW JERSEY

SHEET No. 15 OF 1

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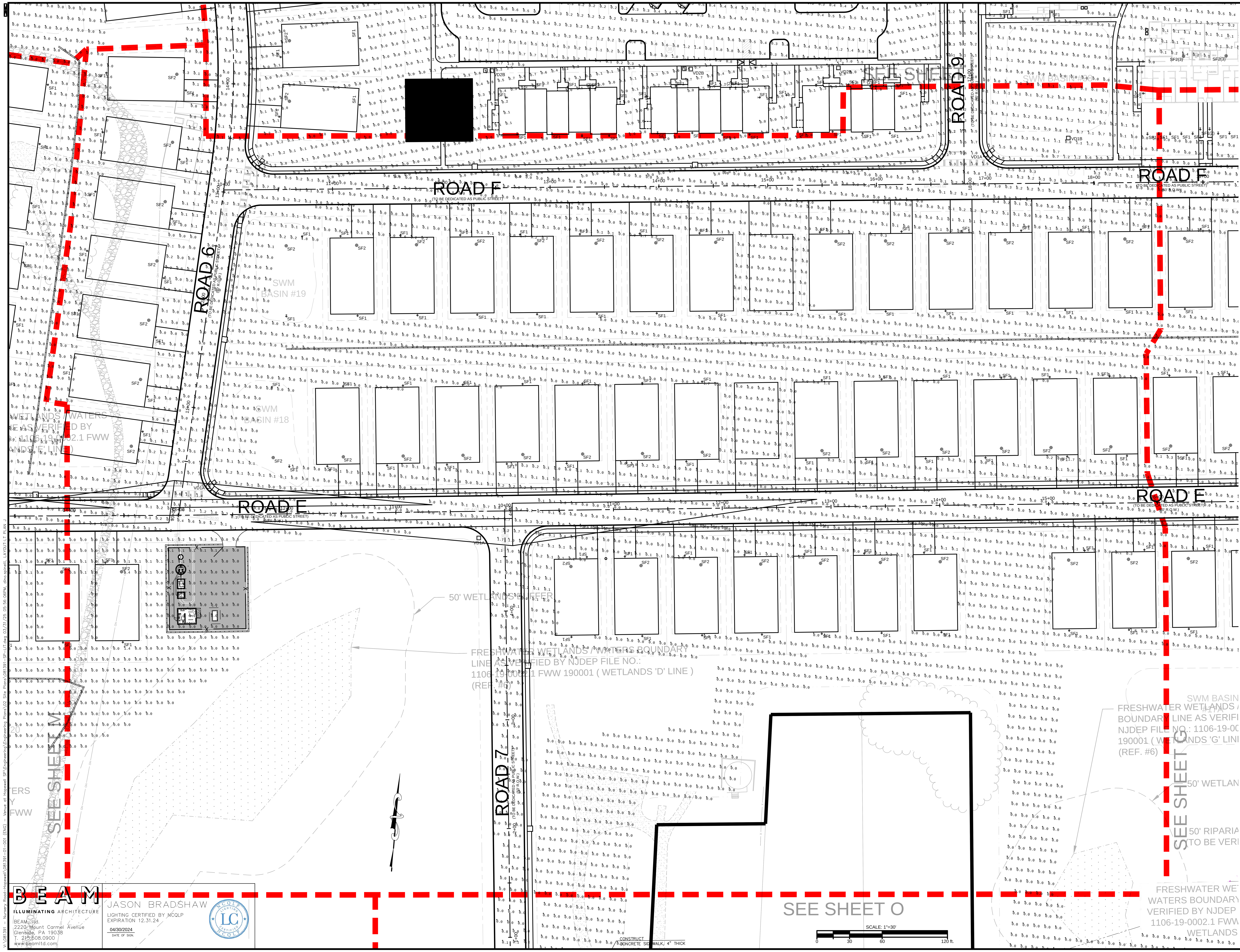
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2	REVISED PER TOWNSHIP COMMENTS	12/18/24	SAD
1	REVISED PER PB COMPLETENESS REVIEW	09/10/24	SAD

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No. 24GA28222600

SEAN A. DELANY, N.J. Professional Engineer, Lic. 24GE04447100

PRELIMINARY AND FINAL MAJOR SUBDIVISION &
PRELIMINARY AND FINAL SITE PLAN FOR

VENUE AT HOPEWELL

ENLARGED SITE LIGHTING PLAN - AREA J (MAINTAINED)

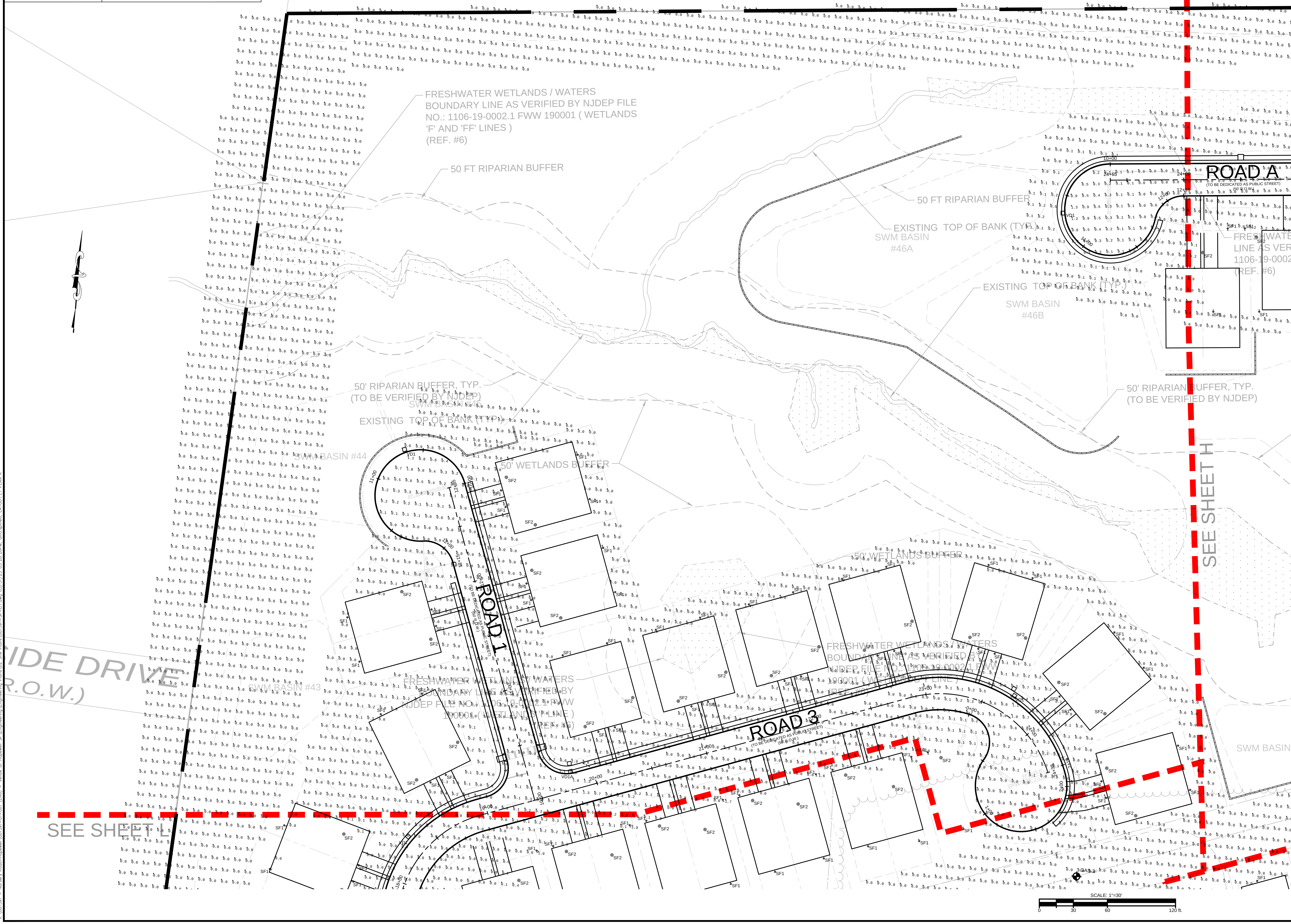
BLOCK 93, LOTS 19, 20, 45.01, 46 & 60
TOWNSHIP OF HOPEWELL, MERCER COUNTY, NEW JERSEY

SHEET No.
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04/30/2024
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2 REVISED PER TOWNSHIP COMMENTS	12/18/24	SAD
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PRELIMINARY AND FINAL MAJOR SUBDIVISION & PRELIMINARY AND FINAL SITE PLAN FOR
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ENLARGED SITE LIGHTING PLAN - AREA K (MAINTAINED)
BLOCK 93, LOTS 19, 20, 45.01, 46 & 60
TOWNSHIP OF HOPEWELL, MERCER COUNTY, NEW JERSEY

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PRELIMINARY AND FINAL MAJOR SUBDIVISION &
PRELIMINARY AND FINAL SITE PLAN FOR
VENUE AT HOPEWELL
ENLARGED SITE LIGHTING PLAN -
AREA L (MAINTAINED)
BLOCK 93, LOTS 19, 20, 45.01, & 46
TOWNSHIP OF HOPEWELL, MERCER COUNTY, NEW JERSEY

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LIGHTING CERTIFICATE #: NCQLP
EXPIRATION 12.31.24
043920024
DATE OF SIGN.

SEE SHEET K

SEE SHEET L

SEE SHEET M

ROAD 2 (PROPOSED PUBLIC STREET) (50' R.O.W.)

ROAD 3 (PROPOSED PUBLIC STREET) (50' R.O.W.)

ROAD C (PROPOSED PUBLIC STREET) (50' R.O.W.)

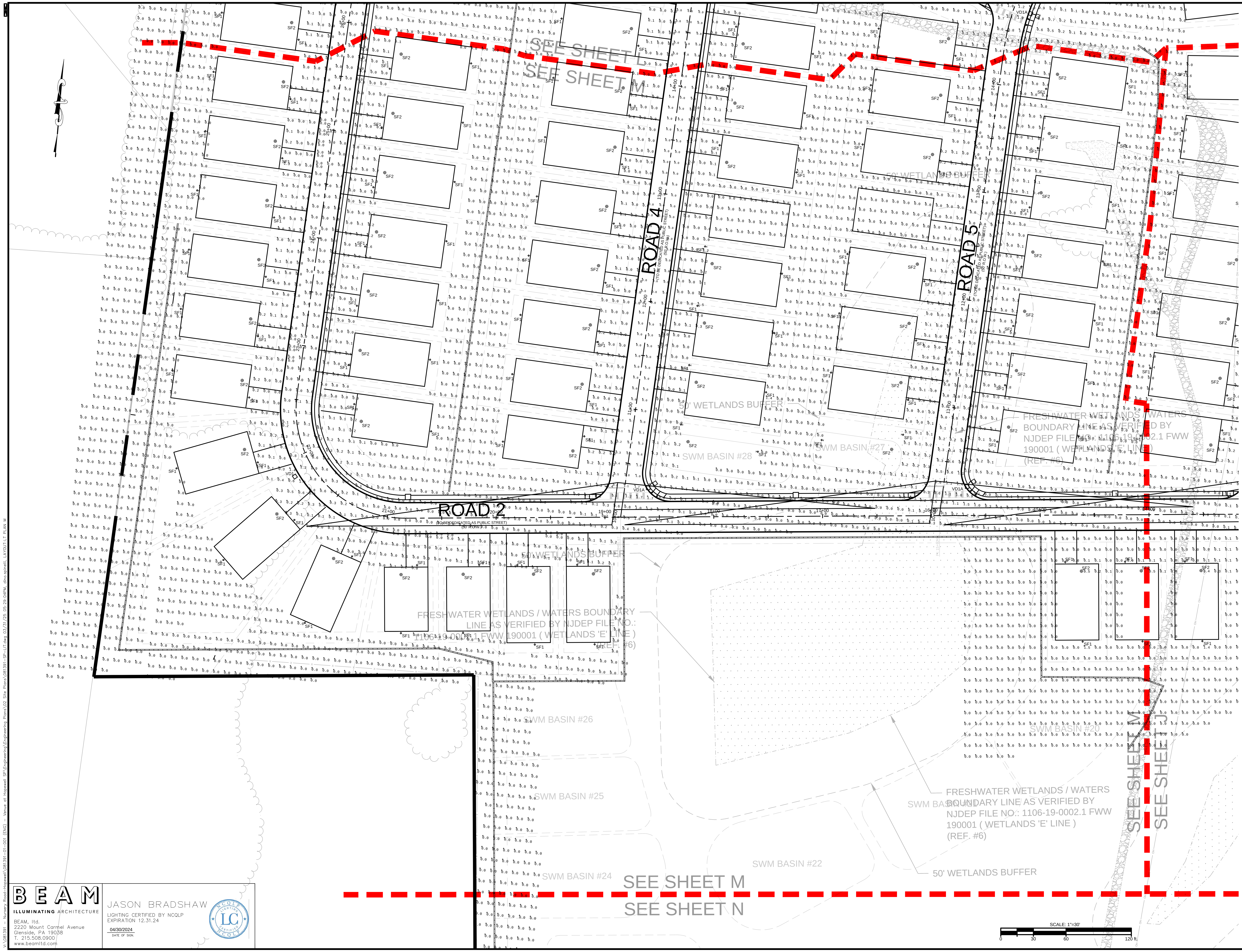
ROAD 5 (PROPOSED PUBLIC STREET) (50' R.O.W.)

ROAD 6 (PROPOSED PUBLIC STREET) (50' R.O.W.)

50' RIPARIAN BUFFER

50 FOOT GAS MAIN EASEMENT

V:\081391 - Nursery Road-Hopewell\081391-01-001 (ENG) - Venue at Hopewell SP\Engineering\Engineering Plans\02 Site Plans\081391-SP-LIT.dwg 03/31/25 05:55:51PM, dno.spinelli, LAYOUT:LIT PLAN L



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No.	REVISION	DATE	CHKD
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PRELIMINARY AND FINAL SITE PLAN FOR
VENUE AT HOPEWELL
ENLARGED SITE LIGHTING PLAN - AREA M (MAINTAINED)
BLOCK 93, LOTS 19, 20, 45.01, 46 & 60
TOWNSHIP OF HOPEWELL, MERCER COUNTY, NEW JERSEY

SHEET No.
15
OF
M

LUMINAIRE SCHEDULE								
TYPE	QUANTITY	MANUFACTURER	CATALOG NUMBER	MOUNTING	VOLTAGE	LAMP WATTS	LAMP TYPE	DESCRIPTION
SF1	1040	GENERATION LIGHTING (OR EQUAL)	84158DEN3-12	SURFACE 8'AFF	120	10W MAX	LED A19 2700K 80+ CRI	LED WALL SCONCE, FULL CUT-OFF/U0 DISTRIBUTION, 800 INITIAL LAMP LUMENS. LUMINAIRE TO BE CONTROLLED BY HOMEOWNER AT SINGLE FAMILY AND DUPLEX UNITS. CONTROLLED VIA PHOTOCELL AT COAH UNITS AND CLUBHOUSE.
SF2	443	GENERATION LIGHTING (OR EQUAL)	7546701	CEILING MOUNT UNDER CANOPY	120	10W MAX	LED A19 2700K 80+ CRI	LED CEILING MOUNTED FLUSHMOUNT, 800 INITIAL LAMP LUMENS. LUMINAIRE TO BE CONTROLLED BY HOMEOWNER AT SINGLE FAMILY AND DUPLEX UNITS.
VD1	18	AMERICAN ELECTRIC (OR EQUAL)	ARDCL-P101-MVOLT-27K-R4-FINISH-SCC-PR3 POLE: LITHONIA RSS-13FT-3B-T20-FINISH/CM17CSB	13' POLE	120-277	30W	LED 2700K 80+CRI	LED SINGLE HEAD STREET LUMINAIRE, 13'-0" POLE, FULL CUT-OFF/U0 TYPE IV DISTRIBUTION, INTEGRAL DIMMING DRIVER, INTEGRAL PHOTOCELL CONTROL, AND 3100 DELIVERED LUMENS
VD1A	27	AMERICAN ELECTRIC (OR EQUAL)	ARDCL-P103-MVOLT-27K-R4-FINISH-SCC-PR3 POLE: LITHONIA RSS-13FT-3B-T20-FINISH/CM17CSB	13' POLE	120-277	50W	LED 2700K 80+CRI	LED SINGLE HEAD STREET LUMINAIRE, 13'-0" POLE, FULL CUT-OFF/U0 TYPE IV DISTRIBUTION, INTEGRAL DIMMING DRIVER, INTEGRAL PHOTOCELL CONTROL, AND 4700 DELIVERED LUMENS
VD1B	18	AMERICAN ELECTRIC (OR EQUAL)	ARDCL-P103-MVOLT-27K-R5-FINISH-SCC-PR3 POLE: LITHONIA RSS-13FT-3B-T20-FINISH/CM17CSB	13' POLE	120-277	50W	LED 2700K 80+CRI	LED SINGLE HEAD STREET LUMINAIRE, 13'-0" POLE, FULL CUT-OFF/U0 TYPE V DISTRIBUTION, INTEGRAL DIMMING DRIVER, INTEGRAL PHOTOCELL CONTROL, AND 5000 DELIVERED LUMENS
VD2	10	AMERICAN ELECTRIC (OR EQUAL)	ARDCL-P103-MVOLT-27K-R3-FINISH-SCC-PR3 POLE: LITHONIA RTS-20FT-5-9B-T20-FINISH/CM17CSB	20' POLE	120-277	50W	LED 2700K 80+CRI	LED SINGLE HEAD STREET LUMINAIRE, 20'-0" POLE, FULL CUT-OFF/U0 TYPE III DISTRIBUTION, INTEGRAL DIMMING DRIVER, INTEGRAL PHOTOCELL CONTROL, AND 5000 DELIVERED LUMENS
VD2B	13	AMERICAN ELECTRIC (OR EQUAL)	ARDCL-P201-MVOLT-27K-R4-FINISH-SCC-PR3 POLE: LITHONIA RTS-20FT-5-9B-T20-FINISH/CM17CSB	20' POLE	120-277	70W	LED 2700K 80+CRI	LED SINGLE HEAD STREET LUMINAIRE, 20'-0" POLE, FULL CUT-OFF/U0 TYPE IV DISTRIBUTION, INTEGRAL DIMMING DRIVER, INTEGRAL PHOTOCELL CONTROL, AND 7100 DELIVERED LUMENS
VD2C	3	AMERICAN ELECTRIC (OR EQUAL)	ARDCL-P203-MVOLT-27K-R5-FINISH-SCC-PR3 POLE: LITHONIA RTS-20FT-5-9B-T20-FINISH/CM17CSB	20' POLE	120-277	90W	LED 2700K 80+CRI	LED SINGLE HEAD STREET LUMINAIRE, 20'-0" POLE, FULL CUT-OFF/U0 TYPE V DISTRIBUTION, INTEGRAL DIMMING DRIVER, INTEGRAL PHOTOCELL CONTROL, AND 8900 DELIVERED LUMENS

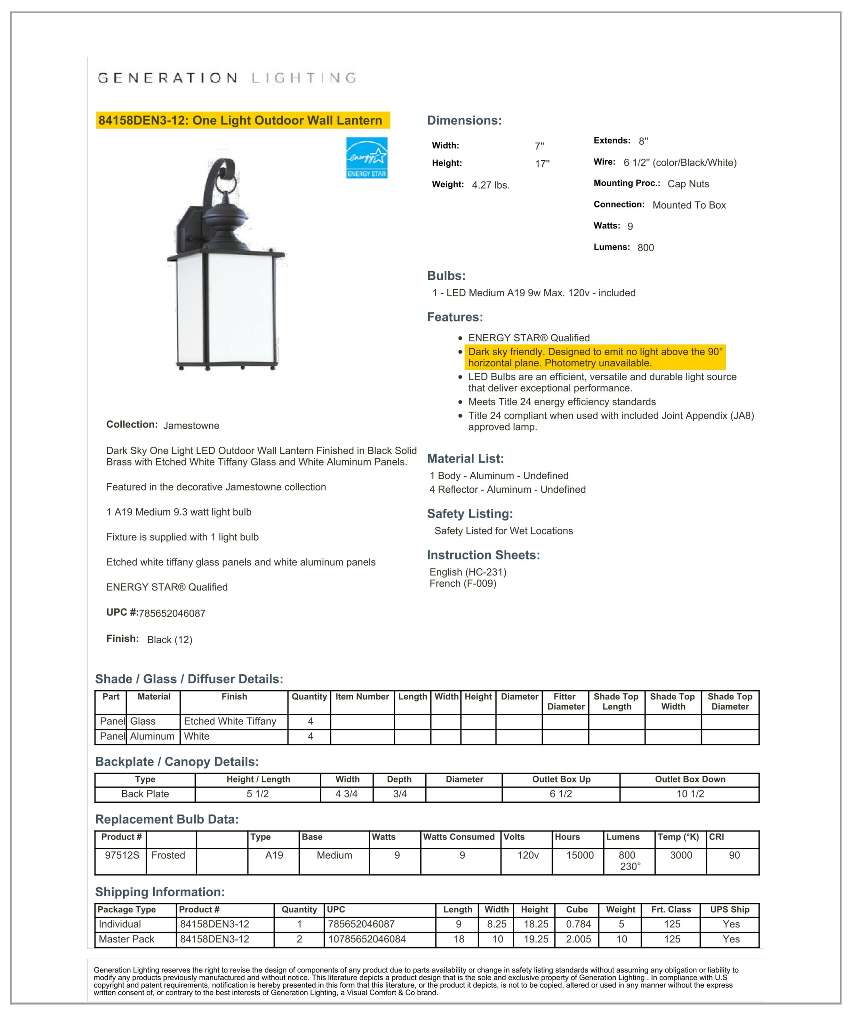
NOTES:
1. ALL LUMINAIRES SHALL MEET ALL HOPEWELL TOWNSHIP LIGHTING ORDINANCE REQUIREMENTS INCLUDING, BUT NOT LIMITED TO, BEING FULL CUT-OFF. REFER TO ORDINANCE FOR ADDITIONAL INFORMATION. POLE LIGHTING MEETS 2700K REQUIREMENT.
2. BECAUSE THIS IS A RESIDENTIAL DEVELOPMENT WITH 24-HOUR ACCESS ALL STREET AND PARKING LOT LIGHTING SHALL REMAIN ON FROM DUSK-TO-DAWN

CALCULATION SUMMARY (INITIAL)							
LABEL	LLF	UNITS	AVG	MAX	MIN	AVG/MIN	MAX/MIN
PARKING AREAS							
PARKING LOT 1	1.0	FC	0.68	1.9	0.2	3.40	9.50
PARKING LOT 2	1.0	FC	0.60	2.1	0.1	6.00	21.00
ROADWAYS							
ROAD A	1.0	FC	0.17	2.0	0.0	N/A	N/A
ROAD B	1.0	FC	0.27	2.0	0.0	N/A	N/A
ROAD C	1.0	FC	0.19	2.2	0.0	N/A	N/A
ROAD D	1.0	FC	0.24	1.9	0.0	N/A	N/A
ROAD E	1.0	FC	0.10	2.0	0.0	N/A	N/A
ROAD F	1.0	FC	0.11	1.5	0.0	N/A	N/A
ROAD G	1.0	FC	0.16	2.1	0.0	N/A	N/A
ROAD 1	1.0	FC	0.12	1.0	0.0	N/A	N/A
ROAD 2	1.0	FC	0.18	2.1	0.0	N/A	N/A
ROAD 3	1.0	FC	0.19	1.7	0.0	N/A	N/A
ROAD 4	1.0	FC	0.17	1.9	0.0	N/A	N/A
ROAD 5	1.0	FC	0.20	2.0	0.0	N/A	N/A
ROAD 6	1.0	FC	0.22	2.2	0.0	N/A	N/A
ROAD 7	1.0	FC	0.13	1.9	0.0	N/A	N/A
ROAD 9	1.0	FC	0.46	1.8	0.0	N/A	N/A
ROAD 10	1.0	FC	0.22	2.0	0.0	N/A	N/A
ROAD 11	1.0	FC	0.19	2.2	0.0	N/A	N/A
ROAD 12	1.0	FC	0.07	1.3	0.0	N/A	N/A

FULL CUTOFF NOTES:
- FULL CUTOFF DEFINITION: ZERO INTENSITY AT OR ABOVE HORIZONTAL (90° ABOVE NADIR) AND LIMITED TO A VALUE NOT EXCEEDING 10% OF LAMP LUMENS AT OR ABOVE 80°
- BUG RATING U0 REQUIREMENTS: NO UPLIGHT EMITTED AT ALL
- REFER TO LUMINAIRE CUTSHEETS AND PHOTOMETRIC REPORTS FOR DOCUMENTATION OF COMPLIANCE

CALCULATION SUMMARY (MAINTAINED)							
LABEL	LLF	UNITS	AVG	MAX	MIN	AVG/MIN	MAX/MIN
PARKING AREAS							
PARKING LOT 1	0.9	FC	0.62	1.7	0.2	3.10	8.50
PARKING LOT 2	0.9	FC	0.54	1.9	0.1	5.40	19.00
ROADWAYS							
ROAD A	0.9	FC	0.15	1.8	0.0	N/A	N/A
ROAD B	0.9	FC	0.24	1.9	0.0	N/A	N/A
ROAD C	0.9	FC	0.17	1.9	0.0	N/A	N/A
ROAD D	0.9	FC	0.22	1.7	0.0	N/A	N/A
ROAD E	0.9	FC	0.10	1.8	0.0	N/A	N/A
ROAD F	0.9	FC	0.10	1.4	0.0	N/A	N/A
ROAD G	0.9	FC	0.14	1.9	0.0	N/A	N/A
ROAD 1	0.9	FC	0.11	1.1	0.0	N/A	N/A
ROAD 2	0.9	FC	0.16	1.9	0.0	N/A	N/A
ROAD 3	0.9	FC	0.17	1.6	0.0	N/A	N/A
ROAD 4	0.9	FC	0.16	1.7	0.0	N/A	N/A
ROAD 5	0.9	FC	0.18	1.8	0.0	N/A	N/A
ROAD 6	0.9	FC	0.20	1.9	0.0	N/A	N/A
ROAD 7	0.9	FC	0.11	1.7	0.0	N/A	N/A
ROAD 9	0.9	FC	0.41	1.6	0.0	N/A	N/A
ROAD 10	0.9	FC	0.20	1.8	0.0	N/A	N/A
ROAD 11	0.9	FC	0.18	1.9	0.0	N/A	N/A
ROAD 12	0.9	FC	0.06	1.2	0.0	N/A	N/A

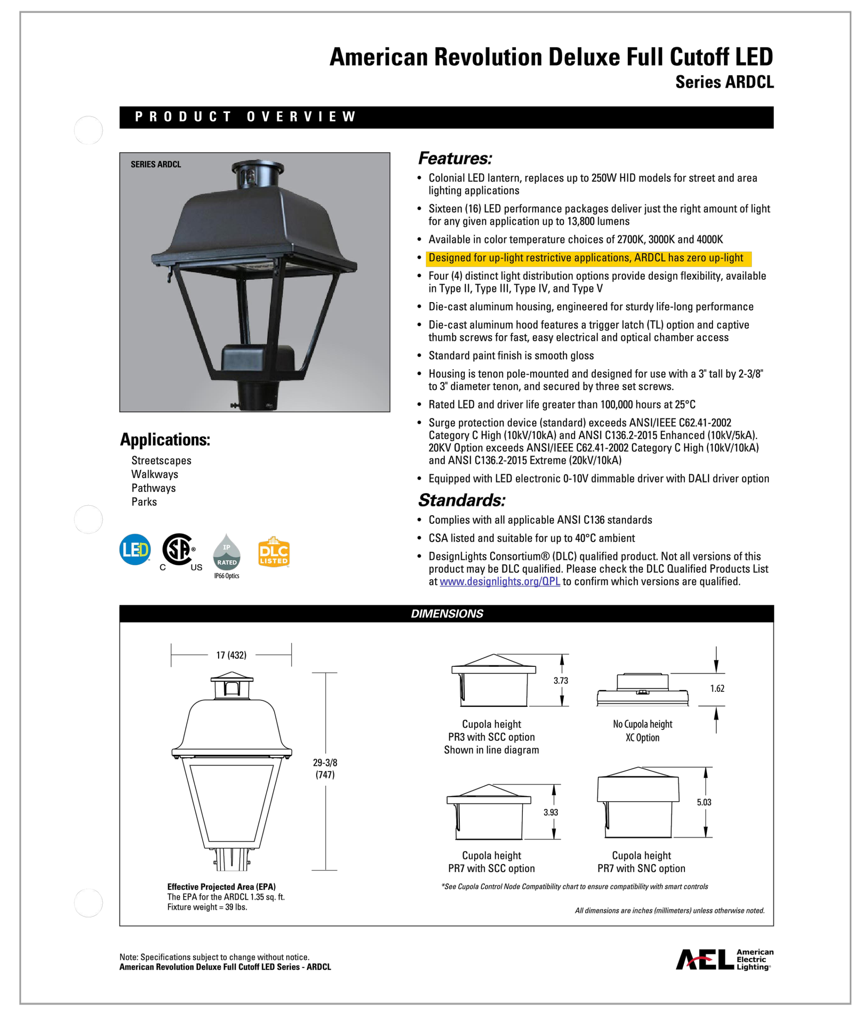
BEAM ILLUMINATING ARCHITECTURE — LUMINAIRE TYPE SF1



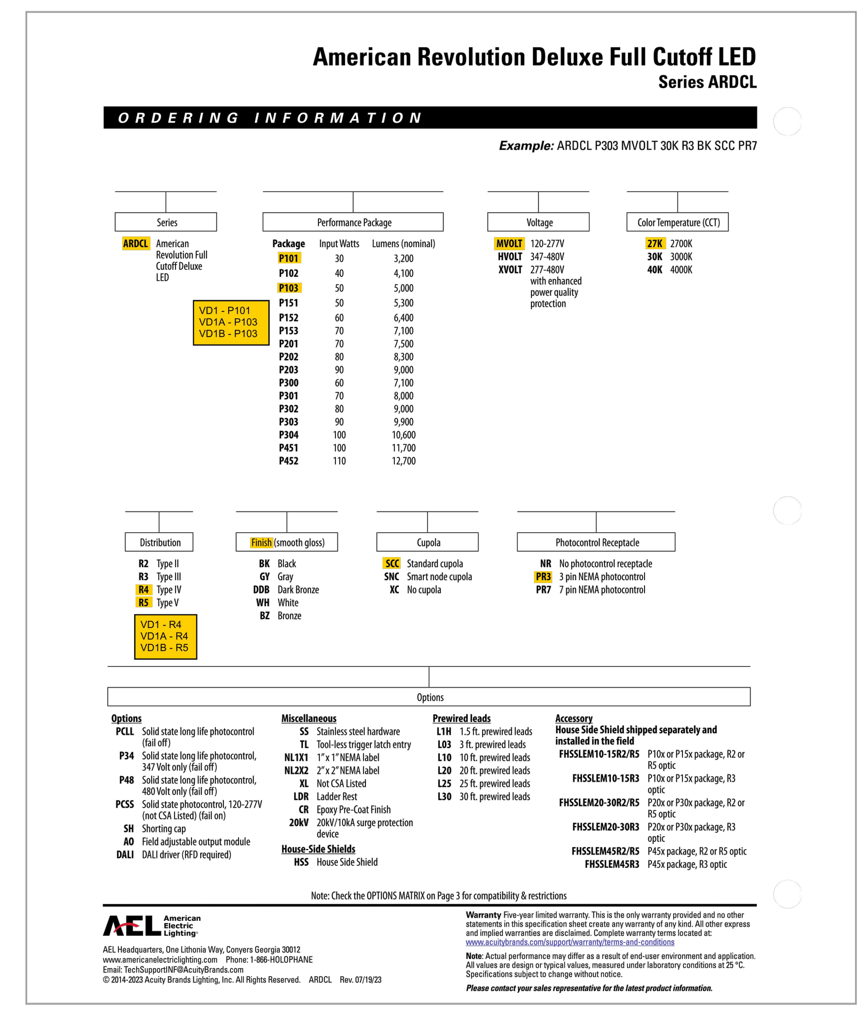
BEAM ILLUMINATING ARCHITECTURE — LUMINAIRE TYPE SF2



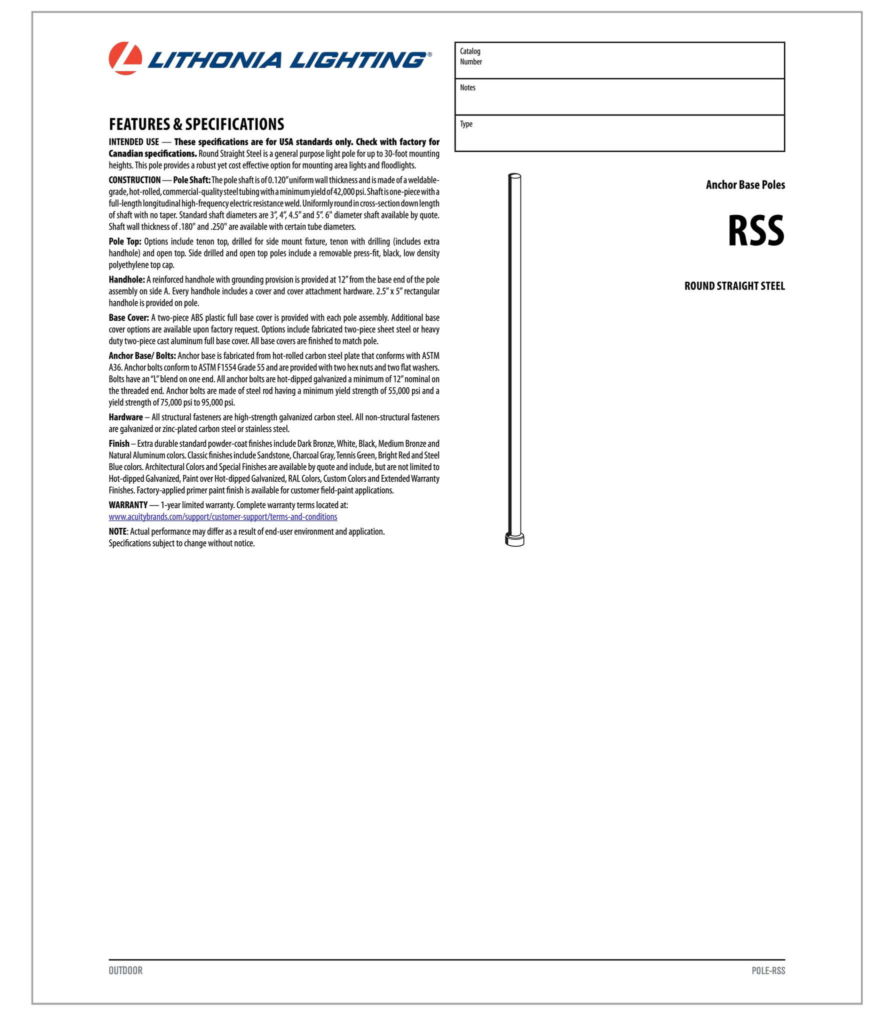
BEAM ILLUMINATING ARCHITECTURE — LUMINAIRE TYPE VD1 SERIES



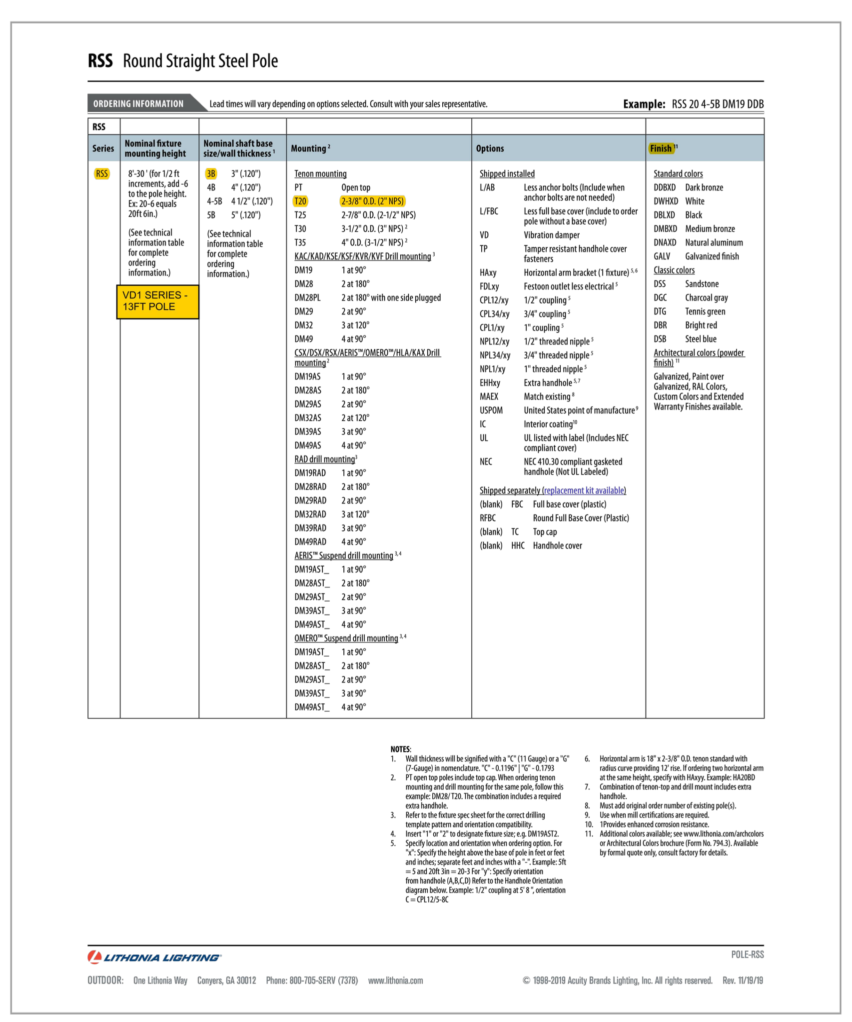
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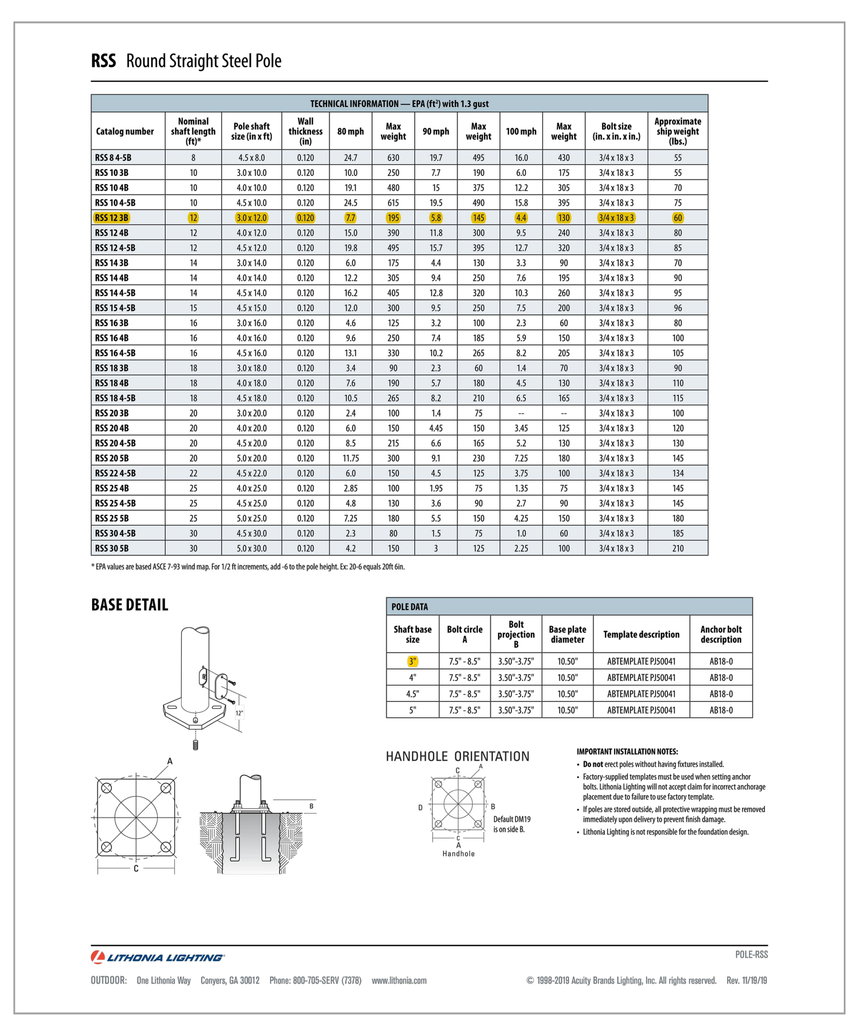
BEAM ILLUMINATING ARCHITECTURE — LUMINAIRE TYPE VD1 SERIES



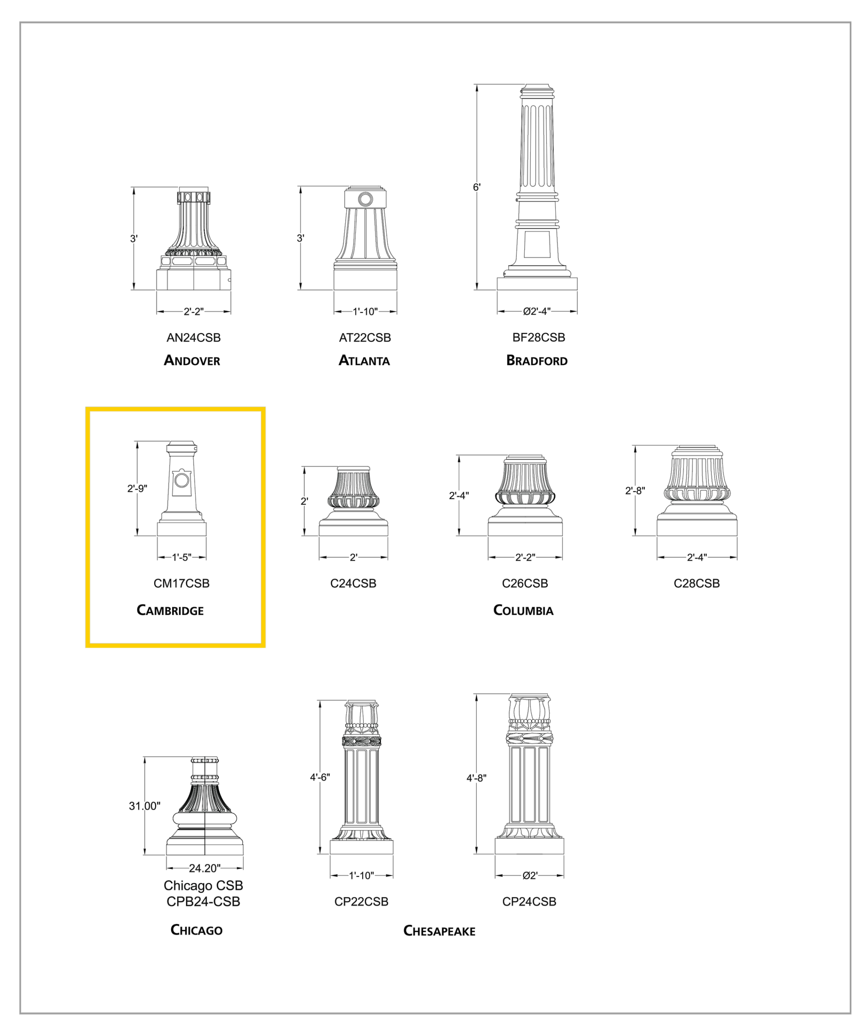
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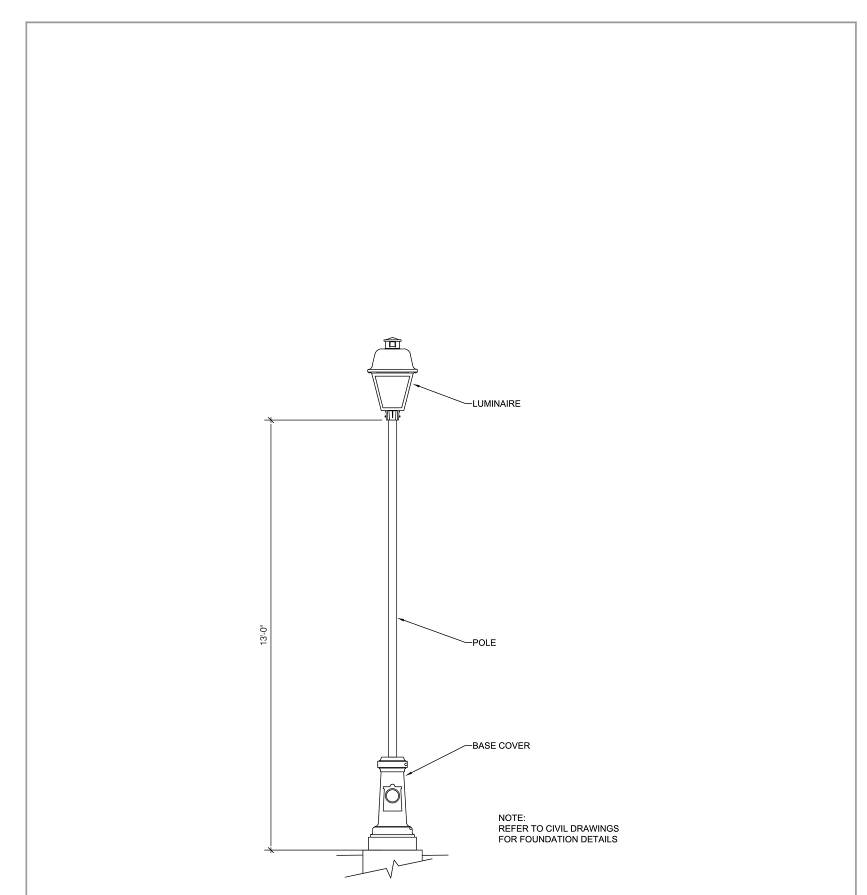
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VD1 SERIES ELEVATION
3/8" = 1'-0"

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SHEET No. 20 OF A

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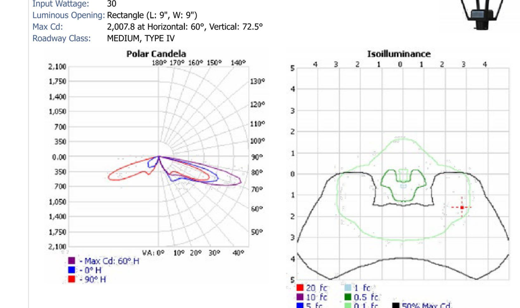
BEAM ILLUMINATING ARCHITECTURE — LUMINAIRE TYPE VD1

1/31/24, 2:40 PM — ARDCL P101 XXXX 27K R4

OUTDOOR PHOTOMETRIC REPORT
CATALOG: ARDCL P101 XXXX 27K R4

AcuityBrands / AEL American Electric Lighting

Test #:	ISF 221144APA1
Test Lab:	SCALED PHOTOMETRY
Catalog:	ARDCL P101 XXXX 27K R4
Description:	ARDL American Revolution Deluxe LED Full Cutoff, P101 Performance Package, 2700K CCT, R4 Distribution,
Series:	Series ARDCL LED - Full Cutoff
Lamp Output:	Total luminaire Lumens: 3099.5, absolute photometry *
Input Wattage:	30
Luminous Opening:	Rectangle (L: 9", W: 9")
Max Cd:	2,007.8 at Horizontal: 60°, Vertical: 72.5°
Roadway Class:	MEDIUM, TYPE IV



*Test based on absolute photometry where lamp lumens=lumens total.
*Cutoff Classification and efficiency cannot be properly calculated for absolute photometry.

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ISF 221144APA1 VISUAL PHOTOMETRIC TOOL — PAGE 1 OF 4

https://www.visual-3d.com/tools/PhotometricViewer/Default.aspx?ID=1127667 — 1/4

BEAM ILLUMINATING ARCHITECTURE — LUMINAIRE TYPE VD1

1/31/24, 2:40 PM — ARDCL P101 XXXX 27K R4

OUTDOOR PHOTOMETRIC REPORT
CATALOG: ARDCL P101 XXXX 27K R4

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	168.3	5.4%
0-40	424.9	13.7%
0-60	1,325.2	42.8%
60-90	1,774.4	57.2%
70-100	921.9	29.7%
90-120	0.000	0%
0-90	3,099.5	100%
90-180	0.000	0%
0-180	3,099.5	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	0.3	0.0%	90-100	0.000	0%
10-20	28.1	0.9%	100-110	0.000	0%
20-30	139.9	4.5%	110-120	0.000	0%
30-40	256.6	8.3%	120-130	0.000	0%
40-50	352.1	11.4%	130-140	0.000	0%
50-60	548.2	17.7%	140-150	0.000	0%
60-70	852.5	27.5%	150-160	0.000	0%
70-80	793.7	25.6%	160-170	0.000	0%
80-90	128.2	4.1%	170-180	0.000	0%

Roadway Summary

	Lumens	% Lamp
Distribution:	TYPE IV, MEDIUM	
Max Cd, 90 Deg Vert:	0.000	
Max Cd, 80 to <90 Deg:	1,213.5	
Downward Street Side:	2,420.4	78.1%
Downward House Side:	678.7	21.9%
Downward Total:	3,099.2	100%
Upward Street Side:	0.000	0%
Upward House Side:	0.000	0%
Upward Total:	0.000	0%
Total Lumens:	3,099.2	100%

LCS Table

BUG Rating	B1 - U0 - G2	
Forward Light	Lumens	Lumens %
Low(0-30):	99.9	3.2%
Medium(30-60):	814.2	26.3%
High(60-80):	1,397.7	45.1%
Very High(80-90):	108.6	3.5%
Back Light		
Low(0-30):	68.1	2.2%
Medium(30-60):	342.4	11%
High(60-80):	249.2	8%
Very High(80-90):	19.0	0.6%
Uplight		
Low(90-100):	0.000	0%
High(100-180):	0.000	0%
Trapped Light:	0.4	0%

ISF 221144APA1 VISUAL PHOTOMETRIC TOOL — PAGE 2 OF 4

https://www.visual-3d.com/tools/PhotometricViewer/Default.aspx?ID=1127667 — 2/4

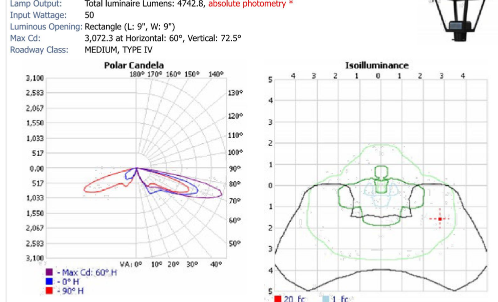
BEAM ILLUMINATING ARCHITECTURE — LUMINAIRE TYPE VD1A

1/31/24, 2:43 PM — ARDCL P103 XXXX 27K R4

OUTDOOR PHOTOMETRIC REPORT
CATALOG: ARDCL P103 XXXX 27K R4

AcuityBrands / AEL American Electric Lighting

Test #:	ISF 221144APA7
Test Lab:	SCALED PHOTOMETRY
Catalog:	ARDCL P103 XXXX 27K R4
Description:	ARDL American Revolution Deluxe LED Full Cutoff, P103 Performance Package, 2700K CCT, R4 Distribution,
Series:	Series ARDCL LED - Full Cutoff
Lamp Output:	Total luminaire Lumens: 4742.8, absolute photometry *
Input Wattage:	50
Luminous Opening:	Rectangle (L: 9", W: 9")
Max Cd:	3,072.3 at Horizontal: 60°, Vertical: 72.5°
Roadway Class:	MEDIUM, TYPE IV



*Test based on absolute photometry where lamp lumens=lumens total.
*Cutoff Classification and efficiency cannot be properly calculated for absolute photometry.

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This Photometric report has been generated using methods recommended by the IESNA. Calculations are based on Photometric data provided by the manufacturer, and the accuracy of this Photometric report is dependent on the accuracy of the data provided. End-user environment and application (including, but not limited to, voltage variation and dirt accumulation) can cause actual Photometric performance to differ from the performance calculated using the data provided by the manufacturer. This report is provided without warranty as to accuracy, completeness, reliability or otherwise. In no event will Acuity Brands Lighting be responsible for any loss resulting from any use of this report.

ISF 221144APA7 VISUAL PHOTOMETRIC TOOL — PAGE 1 OF 4

https://www.visual-3d.com/tools/PhotometricViewer/Default.aspx?ID=1127673 — 1/4

BEAM ILLUMINATING ARCHITECTURE — LUMINAIRE TYPE VD1A

1/31/24, 2:43 PM — ARDCL P103 XXXX 27K R4

OUTDOOR PHOTOMETRIC REPORT
CATALOG: ARDCL P103 XXXX 27K R4

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	257.5	5.4%
0-40	650.2	13.7%
0-60	2,027.7	42.8%
60-90	2,715.0	57.2%
70-100	1,410.6	29.7%
90-120	0.000	0%
0-90	4,742.8	100%
90-180	0.000	0%
0-180	4,742.8	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	0.5	0.0%	90-100	0.000	0%
10-20	43.0	0.9%	100-110	0.000	0%
20-30	214.0	4.5%	110-120	0.000	0%
30-40	392.7	8.3%	120-130	0.000	0%
40-50	538.8	11.4%	130-140	0.000	0%
50-60	838.8	17.7%	140-150	0.000	0%
60-70	1,304.4	27.5%	150-160	0.000	0%
70-80	1,214.4	25.6%	160-170	0.000	0%
80-90	196.2	4.1%	170-180	0.000	0%

Roadway Summary

	Lumens	% Lamp
Distribution:	TYPE IV, MEDIUM	
Max Cd, 90 Deg Vert:	0.000	
Max Cd, 80 to <90 Deg:	1,856.9	
Downward Street Side:	3,703.6	78.1%
Downward House Side:	1,038.5	21.9%
Downward Total:	4,742.1	100%
Upward Street Side:	0.000	0%
Upward House Side:	0.000	0%
Upward Total:	0.000	0%
Total Lumens:	4,742.1	100%

LCS Table

BUG Rating	B1 - U0 - G2	
Forward Light	Lumens	Lumens %
Low(0-30):	152.9	3.2%
Medium(30-60):	1,245.8	26.3%
High(60-80):	2,138.6	45.1%
Very High(80-90):	166.2	3.5%
Back Light		
Low(0-30):	104.2	2.2%
Medium(30-60):	523.9	11%
High(60-80):	381.3	8%
Very High(80-90):	29.1	0.6%
Uplight		
Low(90-100):	0.000	0%
High(100-180):	0.000	0%
Trapped Light:	0.6	0%

ISF 221144APA7 VISUAL PHOTOMETRIC TOOL — PAGE 2 OF 4

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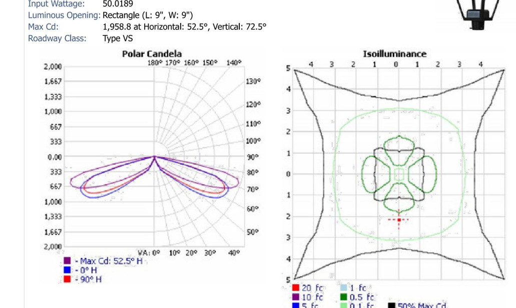
BEAM ILLUMINATING ARCHITECTURE — LUMINAIRE TYPE VD1B

1/31/24, 2:47 PM — ARDCL P103 XXXX 27K R5

OUTDOOR PHOTOMETRIC REPORT
CATALOG: ARDCL P103 XXXX 27K R5

AcuityBrands / AEL American Electric Lighting

Test #:	ISF 22284AP52
Test Lab:	SCALED PHOTOMETRY
Catalog:	ARDCL P103 XXXX 27K R5
Description:	ARDL American Revolution Deluxe LED Full Cutoff, P103 Performance Package, 2700K CCT, R5 Distribution
Series:	Series ARDCL LED - Full Cutoff
Lamp Output:	Total luminaire Lumens: 4954.8, absolute photometry *
Input Wattage:	50.0189
Luminous Opening:	Rectangle (L: 9", W: 9")
Max Cd:	1,958.8 at Horizontal: 52.5°, Vertical: 72.5°
Roadway Class:	Type VS



*Test based on absolute photometry where lamp lumens=lumens total.
*Cutoff Classification and efficiency cannot be properly calculated for absolute photometry.

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This Photometric report has been generated using methods recommended by the IESNA. Calculations are based on Photometric data provided by the manufacturer, and the accuracy of this Photometric report is dependent on the accuracy of the data provided. End-user environment and application (including, but not limited to, voltage variation and dirt accumulation) can cause actual Photometric performance to differ from the performance calculated using the data provided by the manufacturer. This report is provided without warranty as to accuracy, completeness, reliability or otherwise. In no event will Acuity Brands Lighting be responsible for any loss resulting from any use of this report.

ISF 22284AP52 VISUAL PHOTOMETRIC TOOL — PAGE 1 OF 4

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BEAM ILLUMINATING ARCHITECTURE — LUMINAIRE TYPE VD1B

1/31/24, 2:47 PM — ARDCL P103 XXXX 27K R5

OUTDOOR PHOTOMETRIC REPORT
CATALOG: ARDCL P103 XXXX 27K R5

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	136.6	2.8%
0-40	395.0	8%
0-60	1,968.3	39.7%
60-90	2,986.4	60.3%
70-100	1,355.4	27.4%
90-120	0.000	0%
0-90	4,954.8	100%
90-180	0.000	0%
0-180	4,954.8	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	0.1	0.0%	90-100	0.000	0%
10-20	18.7	0.4%	100-110	0.000	0%
20-30	117.9	2.4%	110-120	0.000	0%
30-40	258.3	5.2%	120-130	0.000	0%
40-50	517.9	10.5%	130-140	0.000	0%
50-60	1,055.5	21.3%	140-150	0.000	0%
60-70	1,631.1	32.9%	150-160	0.000	0%
70-80	1,230.5	24.8%	160-170	0.000	0%
80-90	124.9	2.5%	170-180	0.000	0%

Roadway Summary

	Lumens	% Lamp
Distribution:	Type VS	
Max Cd, 90 Deg Vert:	0.000	
Max Cd, 80 to <90 Deg:	1,398.5	
Downward Street Side:	2,477.1	50%
Downward House Side:	2,477.1	50%
Downward Total:	4,954.2	100%
Upward Street Side:	0.000	0%
Upward House Side:	0.000	0%
Upward Total:	0.000	0%
Total Lumens:	4,954.2	100%

LCS Table

BUG Rating	B3 - U0 - G1	
Forward Light	Lumens	Lumens %
Low(0-30):	68.2	1.4%
Medium(30-60):	915.5	18.5%
High(60-80):	1,431.3	28.9%
Very High(80-90):	62.2	1.3%
Back Light		
Low(0-30):	68.2	1.4%
Medium(30-60):	915.5	18.5%
High(60-80):	1,431.3	28.9%
Very High(80-90):	62.2	1.3%
Uplight		
Low(90-100):	0.000	0%
High(100-180):	0.000	0%
Trapped Light:	0.5	0%

ISF 22284AP52 VISUAL PHOTOMETRIC TOOL — PAGE 2 OF 4

https://www.visual-3d.com/tools/PhotometricViewer/Default.aspx?ID=1119108 — 2/4

BEAM ILLUMINATING ARCHITECTURE — LUMINAIRE TYPE VD2 SERIES

American Revolution Deluxe Full Cutoff LED
Series ARDCL

PRODUCT OVERVIEW

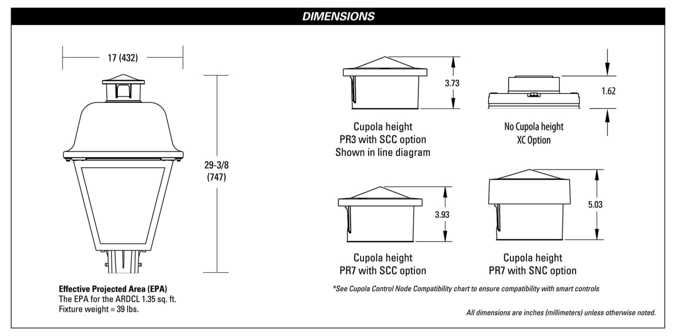


Applications:
Streetscapes
Walkways
Pathways
Parks

Features:
- Colonial LED lantern, replaces up to 250W HID models for street and area lighting applications
- Sixteen (16) LED performance packages deliver just the right amount of light for any given application up to 13,800 lumens
- Available in color temperature choices of 2700K, 3000K and 4000K
- Designed for up-light restrictive applications, ARDCL has zero up-light
- Four (4) distinct light distribution options provide design flexibility, available in Type II, Type III, Type IV, and Type V
- Die-cast aluminum housing, engineered for sturdy life-long performance
- Die-cast aluminum hood features a trigger latch (TL) option and captive thumb screws for fast, easy electrical and optical chamber access
- Standard paint finish is smooth gloss
- Housing is tenon pole-mounted and designed for use with a 3" tall by 2-3/8" to 3" diameter tenon, and secured by three set screws.
- Rated LED and driver life greater than 100,000 hours at 25°C
- Surge protection device (standard) exceeds ANSI/IEEE C62.41-2002 Category C High (10kV/10kA) and ANSI C136.2-2015 Enhanced (10kV/5kA). 20KV Option exceeds ANSI/IEEE C62.41-2002 Category C High (10kV/10kA) and ANSI C136.2-2015 Extreme (20kV/10kA)
- Equipped with LED electronic 0-10V dimmable driver with DALI driver option

Standards:
- Complies with all applicable ANSI C136 standards
- CSA listed and suitable for up to 40°C ambient
- DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

DIMENSIONS



Effective Projected Area (EPA)
The EPA for the ARDCL 1.35 sq. ft.
Fixture weight = 39 lbs.

*See Cupola Control Node Compatibility chart to ensure compatibility with smart controls

All dimensions are inches (millimeters) unless otherwise noted.

Note: Specifications subject to change without notice.
American Revolution Deluxe Full Cutoff LED Series - ARDCL

BEAM ILLUMINATING ARCHITECTURE — LUMINAIRE TYPE VD2 SERIES

American Revolution Deluxe Full Cutoff LED
Series ARDCL

ORDERING INFORMATION

Example: ARDCL P303 MVOLT 30K R3 BK SCC PR7

Series
- ARDCL — American Revolution Full Cutoff Deluxe LED

Performance Package

Package	Input Watts	Lumens (nominal)
P101	30	3,200
P102	40	4,100
P103	50	5,000
P151	50	5,300
P152	60	6,400
P153	70	7,100
P201	70	7,500
P202	80	8,300
P203	90	9,000
P300	60	7,100
P301	70	8,000
P302	80	9,000
P303	90	9,900
P304	100	10,600
P451	100	11,700
P452	110	12,700

VD2 - P103
VD2B - P201
VD2C - P203

Voltage
- MVOLT — 120-277V
- HVOLT — 347-480V
- XVOLT — 277-480V with enhanced power quality protection

Color Temperature (CCT)
- 27K — 2700K
- 30K — 3000K
- 40K — 4000K

Distribution
- R2 — Type II
- R3 — Type III
- R4 — Type IV
- R5 — Type V

VD2 - R3
VD2B - R4
VD2C - R5

Finish (smooth gloss)
- BK — Black
- GY — Gray
- DDB — Dark Bronze
- WH — White
- BZ — Bronze

Cupola
- SCC — Standard cupola
- SNC — Smart node cupola
- XC — No cupola

Photocontrol Receptacle
- NR — No photocontrol receptacle
- PR3 — 3 pin NEMA photocontrol
- PR7 — 7 pin NEMA photocontrol

Options

Options
- PCLL — Solid state long life photocontrol (fail off)
- P34 — Solid state long life photocontrol, 347 Volt only (fail off)
- P48 — Solid state long life photocontrol, 480 Volt only (fail off)
- PCSS — Solid state photocontrol, 120-277V (not CSA Listed) (fail on)
- SH — Shorting cap
- AO — Field adjustable output module
- DALI — DALI driver (RFD required)

Miscellaneous
- SS — Stainless steel hardware
- TL — Tool-less trigger latch entry
- NL1X1 — 1" x 1" NEMA label
- NL2X2 — 2" x 2" NEMA label
- XL — Not CSA Listed
- LDR — Ladder Rest
- CR — Epoxy Pre-Coat Finish
- 20kV — 20kV/10kA surge protection device

House-Side Shields
- HSS — House Side Shield

Prewired leads
- L1H — 1.5 ft. prewired leads
- L03 — 3 ft. prewired leads
- L10 — 10 ft. prewired leads
- L20 — 20 ft. prewired leads
- L25 — 25 ft. prewired leads
- L30 — 30 ft. prewired leads

Accessory
House Side Shield shipped separately and installed in the field
- FHSSLEM10-15R2/R5 — P10x or P15x package, R2 or R5 optic
- FHSSLEM10-15R3 — P10x or P15x package, R3 optic
- FHSSLEM20-30R2/R5 — P20x or P30x package, R2 or R5 optic
- FHSSLEM20-30R3 — P20x or P30x package, R3 optic
- FHSSLEM45R2/R5 — P45x package, R2 or R5 optic
- FHSSLEM45R3 — P45x package, R3 optic

Note: Check the OPTIONS MATRIX on Page 3 for compatibility & restrictions

AEL American Electric Lighting
AEL Headquarters, One Lithonia Way, Conyers Georgia 30012
www.americanelectriclighting.com Phone: 1-866-HOLDPHANE
Email: TechSupportINF@AcuityBrands.com
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Warranty Five-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

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.

Please contact your sales representative for the latest product information.

BEAM ILLUMINATING ARCHITECTURE — LUMINAIRE TYPE VD2 SERIES

LITHONIA LIGHTING

Catalog Number	
Notes	
Type	

FEATURES & SPECIFICATIONS

INTENDED USE — These specifications are for USA standards only. RTS poles are not to be utilized for Sportslighting applications requiring use of crossarms to mount luminaires. SPRTS series poles are the correct pole type for Sportslighting projects and are designed to be configured as a complete assembly with the desired crossarm(s) incorporated within the pole nomenclature description.

CONSTRUCTION — Pole Shaft: The pole shaft is of 11-gauge (0.1196") or 7-gauge (0.1793") with a uniform wall thickness and is made of a weldable-grade (ASTM A-595 Grade A or A572 Grade 55), hot-rolled, commercial-quality carbon steel tubing with a minimum yield of 55,000 psi. Shaft is one-piece construction with a full-length longitudinal high-frequency electric resistance weld and round in cross-section having a uniform linear taper of .14" per foot.

Pole Top: Options include tenon top, drilled for side mount fixture, tenon with drilling (includes extra handhole) and open top. Side drilled and open top poles include a removable steel top cap with set screws.

Handhole: A reinforced handhole with grounding provision is provided at 18" from the base end of the pole assembly on side A. Every handhole includes a cover and cover attachment hardware. 3" x 5" rectangular handhole is provided on pole with 5.9" diameter. Pole shaft with diameters greater than 5.9" are provided with a 4" x 6.5" oval shaped handhole.

Base Cover: A two-piece ABS plastic full base cover is provided with each pole assembly on pole shaft diameters of 9" or less. Shaft sized greater than 9" have a sheet steel two-piece base cover. Additional base cover options are available upon factory request. Bolt cover caps can be substituted on most pole shaft sizes. Options include heavy duty two-piece cast aluminum full base cover and bolt cover caps. All base covers and bolt cover caps are finished to match pole.

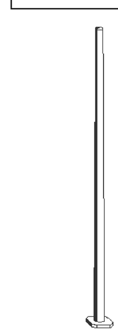
Anchor Base/Bolts: Anchor base is fabricated from hot-rolled carbon steel plate that conforms with ASTM A36. Anchor bolts are manufactured to ASTM F1554 Standards Grade 55, (55 KSI minimum yield strength and tensile strength of 75-95 KSI). Upper portion of anchor bolt is galvanized per ASTM A-153; bolts have an "L" bend on bottom end and are galvanized a minimum of 12" on the threaded end. Each hot-dipped galvanized anchor bolt is furnished with two hex nuts and two flat washers.

HARDWARE – All structural fasteners are high-strength galvanized carbon steel. All non-structural fasteners are galvanized or zinc-plated carbon steel, or stainless steel.

FINISH – Extra durable standard finishes include Dark Bronze, White, Black, Medium Bronze, Natural Aluminum, or Hot-dipped Galvanized finish. Classic colors include Sandstone, Charcoal Gray, Tennis Green, Bright Red and Steel Blue. Architectural Colors and Special Finishes are available by quote and include but are not limited to Hot-dipped Galvanized, Paint over Galvanized, RAL Colors, Custom Colors and Extended Warranty Finishes.

WARRANTY — 1-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

NOTE: Actual performance may differ as a result of end-user environment and application. Specifications subject to change without notice.



Anchor Base Poles

RTS

ROUND TAPERED STEEL

OUTDOOR — POLE-RTS

BEAM ILLUMINATING ARCHITECTURE — LUMINAIRE TYPE VD2 SERIES

RTS Round Tapered Steel Poles

ORDERING INFORMATION Lead times will vary depending on options selected. Consult with your sales representative. **Example:** RTS 30 6-6B DM19 DDB

Series
- RTS

Nominal fixture mounting height
20'-50' (for 1/2 ft increments, add -6 to the pole height. Ex: 20-6 equals 20ft 6in.)
(See technical information table for complete ordering information.)
VD2 SERIES - 20FT POLE

Nominal shaft base size/wall thickness[1]
5-9B (.120"), 6-5B (.120"), 6-6B (.120"), 7-0B (.120"), 7-0F (.179"), 7-3B (.120"), 7-8B (.120"), 8-0B (.120"), 8-0F (.188"), 8-5B (.120"), 9-0B (.120"), 9-0F (.179"), 9-5B (.120"), 10-0B (.120"), 10-0F (.179"), 11-0F (.179"), 13-0F (.179"), 13-0M (.239")
(See technical information table for complete ordering information.)

Mounting[2]

Tenon mounting
- PT — Open top
- T20 — 2-3/8" O.D. (2" NPS)[2]
- T25 — 2-7/8" O.D. (2-1/2" NPS)[2]
- T30 — 3-1/2" O.D. (3" NPS)[2]
- T35 — 4" O.D. (3-1/2" NPS)[2]

KAC/KAD/KSE/KSF/KVR/KVF Drill mounting[3]
- DM19 — 1 at 90°
- DM28 — 2 at 180°
- DM28PL — 2 at 180° with one side plugged
- DM29 — 2 at 90°[2]
- DM32 — 3 at 120°[2]
- DM39 — 3 at 90°[2]
- DM49 — 4 at 90°[2]

CSX/DSX/RSX/AERIS™/OMERO™/HLA/KAX Drill mounting[3]
- DM19AS — 1 at 90°
- DM28AS — 2 at 180°
- DM29AS — 2 at 90°[2]
- DM32AS — 3 at 120°[2]
- DM39AS — 3 at 90°[2]
- DM49AS — 4 at 90°[2]

RAD drill mounting[3]
- DM19RAD — 1 at 90°
- DM28RAD — 2 at 180°
- DM29RAD — 2 at 90°
- DM32RAD — 3 at 120°
- DM39RAD — 3 at 90°
- DM49RAD — 4 at 90°

ESX Drill mounting[3]
- DM19ESX — 1 at 90°
- DM28ESX — 2 at 180°
- DM29ESX — 2 at 90°
- DM39ESX — 3 at 90°
- DM49ESX — 4 at 90°

AERIS™ Suspend drill mounting[3,4]
- DM19AST_ — 1 at 90°
- DM28AST_ — 2 at 180°
- DM29AST_ — 2 at 90°
- DM39AST_ — 3 at 90°
- DM49AST_ — 4 at 90°

OMERO™ Suspend drill mounting[3,4]
- DM19MRT_ — 1 at 90°
- DM28MRT_ — 2 at 180°
- DM29MRT_ — 2 at 90°
- DM39MRT_ — 3 at 90°
- DM49MRT_ — 4 at 90°

Options

Shipped installed
- L/AB — Less anchor bolts (Include when anchor bolts are not needed)
- VD — Vibration damper
- TP — Tamper resistant handhole cover fasteners
- HAxy — Horizontal arm bracket (1 fixture)[5,6]
- FDLxy — Festoon outlet less electrical[5]
- CPL12/xy — 1/2" coupling[5]
- CPL34/xy — 3/4" coupling[5]
- CPL1/xy — 1" coupling[5]
- NPL12/xy — 1/2" threaded nipple[5]
- NPL34/xy — 3/4" threaded nipple[5]
- NPL1/xy — 1" threaded nipple[5]
- EHHxy — Extra handhole[5,7]
- MAEX — Match existiing[8]
- USPOM — United States point of manufacture[9]
- IC — Interior coating[10]
- UL — UL listed with label (Includes NEC compliant cover)
- NEC — NEC 410.30 compliant gasketed handhole (Not UL Labeled)

Finish[11]

Standard colors
- DDBXD — Dark bronze
- DWHXD — White
- DBLXD — Black
- DMBXD — Medium bronze
- DNAXD — Natural aluminum
- GALV — Galvanized finish

Shipped separately (replacement kit available)
- (blank) FBC — Full base cover
- (blank) TC — Top cap

Classic colors
- DSS — Sandstone
- DGC — Charcoal gray
- DTG — Tennis green
- DBR — Bright red
- DSB — Steel blue

Architectural Colors and Special Finishes[11]
Galvanized, Paint over Galvanized, RAL Colors, Custom Colors and Extended Warranty Finishes available.

NOTES:
1. Wall thickness will be signified with a "C" (11 Gauge) or a "G" (7-Gauge) in nomenclature. "C" - 0.1196" | "G" - 0.1793"
2. PT open top poles include top cap. When ordering tenon mounting and drill mounting for the same pole, follow this example: DM28/T20. The combination includes a required extra handhole.
3. Refer to the fixture spec sheet for the correct drilling template pattern and orientation compatibility.
4. Insert "1" or "2" to designate fixture size; e.g. DM19AST2.
5. Specify location and orientation when ordering option. For "x": Specify the height above the base of pole in feet or feet and inches; separate feet and inches with a "-". *Example: 5ft = 5 and 20ft 3in = 20-3* For "y": Specify orientation from handhole (A,B,C,D) Refer to the Handhole Orientation diagram below. *Example: 1/2" coupling at 5' 8", orientation C = CPL12/5-8C*
6. Horizontal arm is 18" x 2-3/8" O.D. tenon standard with radius curve providing 12' rise. If ordering two horizontal arm at the same height, specify with HAxyy. Example: HA20BD
7. Combination of tenon-top and drill mount includes extra handhole.
8. Must add original order number of existing pole(s).
9. Use when mill certifications are required.
10. Provides enhanced corrosion resistance.
11. Additional colors available; see www.lithonia.com/archcolors or Architectural Colors brochure (Form No. 794.3). Available by formal quote only, consult factory for details.

LITHONIA LIGHTING — POLE-RTS
OUTDOOR: One Lithonia Way Conyers, GA 30012 Phone: 800-705-SERV (7378) www.lithonia.com
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BEAM ILLUMINATING ARCHITECTURE — LUMINAIRE TYPE VD2 SERIES

RTS Round Tapered Steel Poles

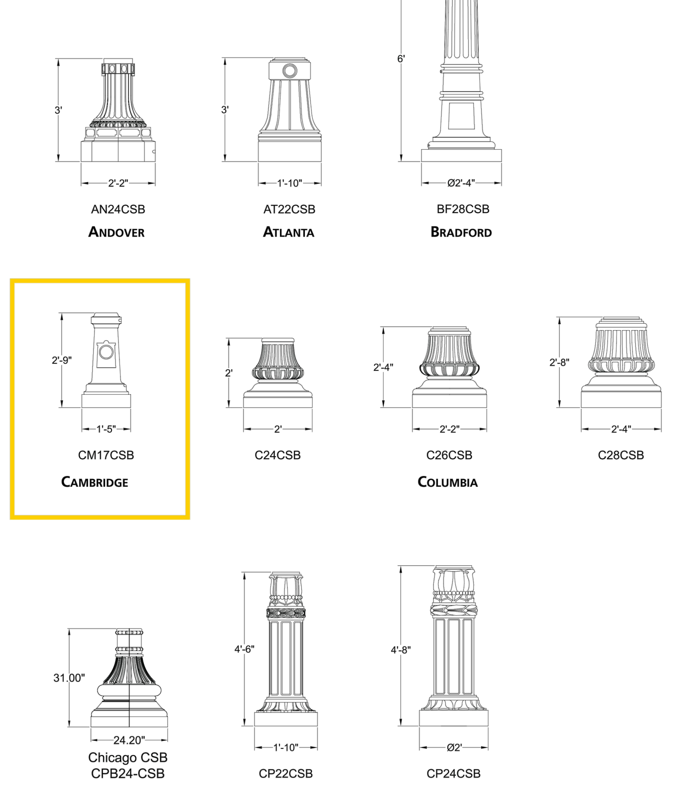
TECHNICAL INFORMATION — EPA (ft²) with 1.3 gust

Catalog Number	Nominal Shaft Length (ft.)*	Pole Shaft Size (Base in. x Top in. x ft.)	Wall thick (in)	Gauge	80 MPH	Max. weight	90 MPH	Max. weight	100 MPH	Max. weight	Bolt size (in. x in. x in.)
RTS 20 5-9B	20	5.9 x 3.1 x 20	0.120	11	19.3	482	15.1	377	12.2	305	1 x 36 x 4
RTS 20 6-5B	20	6.5 x 3.7 x 20	0.120	11	24.2	605	19.3	482	15.6	390	1 x 36 x 4
RTS 25 5-9B	25	5.9 x 2.4 x 25	0.120	11	12.5	312	9.9	247	8	200	1 x 36 x 4
RTS 25 7-0B	25	7.0 x 3.5 x 25	0.120	11	20.3	507	16.2	405	13.1	327	1 x 36 x 4
RTS 25 7-0F	25	7.0 x 3.5 x 25	0.179	7	30.5	760	24	625	19.8	495	1 x 36 x 4
RTS 30 6-6B	30	6.6 x 2.4 x 30	0.120	11	11.7	292	9.3	232	7.5	187	1 x 36 x 4
RTS 30 8-0B	30	8.0 x 3.8 x 30	0.120	11	18.9	473	14.9	373	12	300	1 x 36 x 4
RTS 30 8-0F	30	8.0 x 3.8 x 30	0.179	7	33.5	838	27	675	22	550	1-1/4 x 42 x 6
RTS 35 7-3B	35	7.3 x 2.4 x 35	0.120	11	11.2	280	8.9	222	7.1	177	1 x 36 x 4
RTS 35 8-5B	35	8.5 x 3.6 x 35	0.120	11	18.9	472	15.1	377	12.2	305	1 x 36 x 4
RTS 35 9-5B	35	9.5 x 4.6 x 35	0.120	11	23.2	580	18.2	455	14.5	363	1 x 36 x 4
RTS 39 7-8B	39	7.8 x 2.4 x 39	0.120	11	10.7	267	8.5	212	6.6	165	1 x 36 x 4
RTS 39 9-0B	39	9.0 x 3.6 x 39	0.120	11	17.2	430	13.5	338	10.8	270	1 x 36 x 4
RTS 39 9-0F	39	9.0 x 3.6 x 39	0.179	7	28.5	715	23	575	19	475	1-1/4 x 42 x 6
RTS 45 10-0B	45	10.0 x 3.7 x 45	0.120	11	17.4	435	13.5	338	10.6	265	1 x 36 x 4
RTS 45 10-0F	45	10.0 x 3.7 x 45	0.179	7	28.5	715	23	575	19	475	1-1/4 x 42 x 6
RTS 50 10-0B	50	10.0 x 3.0 x 50	0.120	11	13.2	330	10.6	265	8.3	208	1 x 36 x 4
RTS 50 10-0F	50	10.0 x 3.0 x 50	0.179	7	20.5	512	16.5	412	13.6	340	1-1/4 x 42 x 6
RTS 50 11-0F	50	11.0 x 3.0 x 50	0.179	7	29.9	748	23.5	588	18.6	465	1-1/4 x 42 x 6
RTS 50 13-0F	50	13.0 x 6.0 x 50	0.179	7	50.4	1260	39.7	992	31.4	785	1-1/4 x 54 x 6
RTS 50 13-0M	50	13.0 x 6.0 x 50	0.239	3	69.2	1730	55	1375	44.2	1105	1-3/4 x 84 x 6

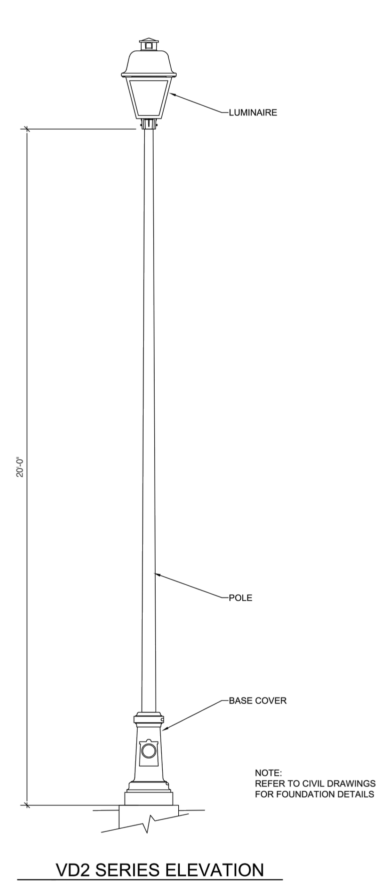
* EPA values are based ASCE 7-93 wind map. For 1/2 ft increments, add -6 to the pole height. Ex: 20-6 equals 20ft 6in.

LITHONIA LIGHTING — POLE-RTS
OUTDOOR: One Lithonia Way Conyers, GA 30012 Phone: 800-705-SERV (7378) www.lithonia.com
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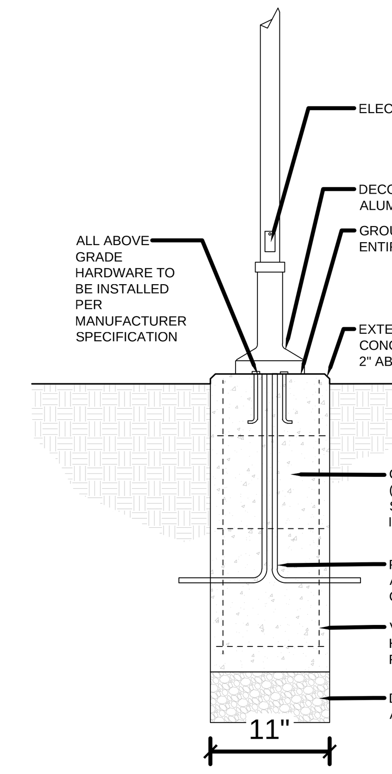
BEAM ILLUMINATING ARCHITECTURE — LUMINAIRE TYPE VD2 SERIES



BEAM ILLUMINATING ARCHITECTURE — LUMINAIRE TYPE VD2 SERIES



VD2 SERIES ELEVATION
3/8" = 1'-0"



LIGHT POLE FOUNDATION
N.T.S.

NOTES:
1. THIS DETAIL IS FOR GENERAL REFERENCE AND PRELIMINARY COST ESTIMATING PURPOSES. THE LIGHT POLE FOUNDATION SHALL BE DESIGNED BY A LICENSED STRUCTURAL ENGINEER BASED ON POLE HEIGHT, EXISTING SOIL CONDITIONS, LOCAL DESIGN STANDARDS AND MANUFACTURERS RECOMMENDATIONS.
2. CONTRACTOR SHALL CONFIRM POLE MEETS WIND RATINGS REQUIREMENTS FOR THE PROJECT LOCATION AND WITH THE PRODUCT SALES REPRESENTATIVE PRIOR TO ORDERING.
3. DEPTH OF FOOTING TO EXTEND A BEYOND FROST LINE (TYP.).
4. INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS.
5. ANCHOR BOLTS AND HARDWARE AS RECOMMENDED/SUPPLIED BY THE MFG.
6. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW/APPROVAL PRIOR TO FABRICATION OR EQUAL TO BE APPROVED BY OWNER
7. FIXTURE TO BE WIRED BY PROJECT ELECTRICAL CONTRACTOR.
8. ALL ELECTRICAL WIRING AND COMPONENTS TO COMPLY WITH N.E.C. AND ALL OTHER APPLICABLE CODES.
9. BOLT CIRCLE AS PER MANUFACTURERS STANDARD SPECIFICATIONS.
10. STRUCTURAL ENGINEER SHALL REVIEW DRAWINGS AND PROVIDE REINFORCING DETAILS AS REQUIRED PRIOR TO CONSTRUCTION.

BEAM ILLUMINATING ARCHITECTURE
BEAM, ltd.
2220 Mount Carmel Avenue
Glenside, PA 19038
T. 215.508.0900
www.beamltd.com

JASON BRADSHAW
LIGHTING CERTIFIED BY NCQLP
EXPIRATION 12.31.24
04/30/2024
DATE OF SIGN.
NCQLP LIGHTING CERTIFIED LC

	REVISION	DATE	CHKD
12			
11			
10			
9			
8			
7			
6			
5			
4	REVISED PER TOWNSHIP COMMENTS	03/31/25	SAD
3	REVISED PER ENGINEERING REVIEW	2/14/25	SAD
2	REVISED PER TOWNSHIP COMMENTS	12/18/24	SAD
1	REVISED PER PB COMPLETENESS REVIEW	09/10/24	SAD

PROJ.: 081391-01-001
DATE: 06/25/2024
CHKD: SAD

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PRELIMINARY AND FINAL MAJOR SUBDIVISION & PRELIMINARY AND FINAL SITE PLAN FOR
VENUE AT HOPEWELL
LIGHTING DETAILS
BLOCK 93, LOTS 19, 20, 45.01, 46 & 60
TOWNSHIP OF HOPEWELL, MERCER COUNTY, NEW JERSEY

SHEET No. 20 OF B

V:\081391 – Nursery Road-Hopewell\081391-01-001 (ENG) – Venue at Hopewell SP\Engineering\Engineering Plans\02 Site Plans\081391-SP-LIT.dwg 03/31/25 03:54:36PM, dino.spinelli, LAYOUT:LT DETAILS 02

V:\081391 – Nursery Road–Hopewell\081391–01–001 (ENG) – Venue at Hopewell SP\Engineering\Engineering Plans\02 Site Plans\081391–SP–LIT.dwg 03/31/25 03:56:26PM, dino.spinelli, LAYOUT:LT DETAILS 03

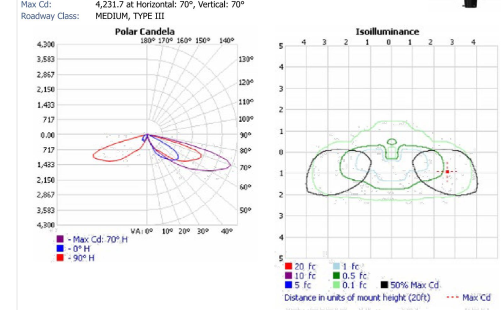
BEAM ILLUMINATING ARCHITECTURE — LUMINAIRE TYPE VD2

1/31/24, 2:57 PM — ARDCL P103 XXXX 30K R3

OUTDOOR PHOTOMETRIC REPORT
CATALOG: ARDCL P103 XXXX 30K R3

AcuityBrands. AEL American Electric Lighting

Test #:	ISF 22283AP53
Test Lab:	SCALED PHOTOMETRY
Catalog:	ARDCL P103 XXXX 30K R3
Description:	ARDL American Revolution Deluxe LED Full Cutoff, P103 Performance Package, 3000K CCT, R3 Distribution
Series:	Series ARDCL LED - Full Cutoff
Lamp Output:	Total luminaire Lumens: 4968.5, absolute photometry *
Input Wattage:	50.0189
Luminous Opening:	Rectangle (L: 9", W: 9")
Max Cd:	4,231.7 at Horizontal: 70°, Vertical: 70°
Roadway Class:	MEDIUM, TYPE III



*Test based on absolute photometry where lamp lumens=lumens total.
*Cutoff Classification and efficiency cannot be properly calculated for absolute photometry.

Visual Photometric Tool 1.2.46 copyright 2024, Acuity Brands Lighting.
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ISF 22283AP53 VISUAL PHOTOMETRIC TOOL — PAGE 1 OF 4

https://www.visual-3d.com/tools/PhotometricViewer/Default.aspx?ID=1119019 — 1/4

BEAM ILLUMINATING ARCHITECTURE — LUMINAIRE TYPE VD2

1/31/24, 2:57 PM — ARDCL P103 XXXX 30K R3

OUTDOOR PHOTOMETRIC REPORT
CATALOG: ARDCL P103 XXXX 30K R3

AcuityBrands.

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	266.8	5.4%
0-40	734.7	14.8%
0-60	2,743.7	55.2%
60-90	2,224.8	44.8%
70-100	897.5	18.1%
90-120	0.000	0%
0-90	4,968.5	100%
90-180	0.000	0%
0-180	4,968.5	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	0.2	0.0%	90-100	0.000	0%
10-20	39.8	0.8%	100-110	0.000	0%
20-30	226.7	4.6%	110-120	0.000	0%
30-40	467.9	9.4%	120-130	0.000	0%
40-50	810.5	16.3%	130-140	0.000	0%
50-60	1,198.5	24.1%	140-150	0.000	0%
60-70	1,327.3	26.7%	150-160	0.000	0%
70-80	788.5	15.9%	160-170	0.000	0%
80-90	109.0	2.2%	170-180	0.000	0%

Roadway Summary

	Lumens	% Lamp
Distribution:	TYPE III, MEDIUM	
Max Cd, 90 Deg Vert:	0.000	
Max Cd, 80 to <90 Deg:	833.5	
Downward Street Side:	3,910.9	78.7%
Downward House Side:	1,056.9	21.3%
Downward Total:	4,967.7	100%
Upward Street Side:	0.000	0%
Upward House Side:	0.000	0%
Upward Total:	0.000	0%
Total Lumens:	4,967.7	100%

LCS Table

BUG Rating	B1 - U0 - G1	
Forward Light	Lumens	Lumens %
Low(0-30):	170.0	3.4%
Medium(30-60):	1,961.1	39.5%
High(60-80):	1,720.3	34.6%
Very High(80-90):	59.5	1.2%
Back Light		
Low(0-30):	96.4	1.9%
Medium(30-60):	515.5	10.4%
High(60-80):	395.7	8%
Very High(80-90):	49.3	1%
Uplight		
Low(90-100):	0.000	0%
High(100-180):	0.000	0%
Trapped Light:	0.8	0%

ISF 22283AP53 VISUAL PHOTOMETRIC TOOL — PAGE 2 OF 4

https://www.visual-3d.com/tools/PhotometricViewer/Default.aspx?ID=1119019 — 2/4

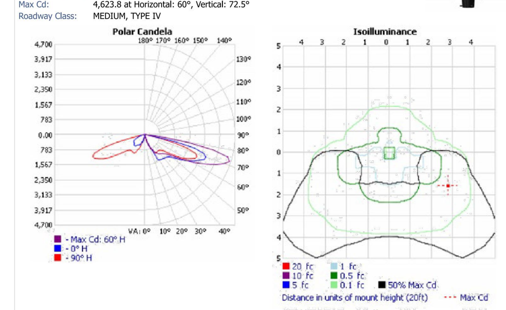
BEAM ILLUMINATING ARCHITECTURE — LUMINAIRE TYPE VD2B

1/31/24, 2:59 PM — ARDCL P201 XXXX 27K R4

OUTDOOR PHOTOMETRIC REPORT
CATALOG: ARDCL P201 XXXX 27K R4

AcuityBrands. AEL American Electric Lighting

Test #:	ISF 221144APA10
Test Lab:	SCALED PHOTOMETRY
Catalog:	ARDCL P201 XXXX 27K R4
Description:	ARDL American Revolution Deluxe LED Full Cutoff, P201 Performance Package, 2700K CCT, R4 Distribution,
Series:	Series ARDCL LED - Full Cutoff
Lamp Output:	Total luminaire Lumens: 7137.9, absolute photometry *
Input Wattage:	70
Luminous Opening:	Rectangle (L: 9", W: 9")
Max Cd:	4,623.8 at Horizontal: 60°, Vertical: 72.5°
Roadway Class:	MEDIUM, TYPE IV



*Test based on absolute photometry where lamp lumens=lumens total.
*Cutoff Classification and efficiency cannot be properly calculated for absolute photometry.

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ISF 221144APA10 VISUAL PHOTOMETRIC TOOL — PAGE 1 OF 4

https://www.visual-3d.com/tools/PhotometricViewer/Default.aspx?ID=1127676 — 1/4

BEAM ILLUMINATING ARCHITECTURE — LUMINAIRE TYPE VD2B

1/31/24, 2:59 PM — ARDCL P201 XXXX 27K R4

OUTDOOR PHOTOMETRIC REPORT
CATALOG: ARDCL P201 XXXX 27K R4

AcuityBrands.

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	387.6	5.4%
0-40	978.6	13.7%
0-60	3,051.8	42.8%
60-90	4,086.2	57.2%
70-100	2,123.0	29.7%
90-120	0.000	0%
0-90	7,137.9	100%
90-180	0.000	0%
0-180	7,137.9	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	0.7	0.0%	90-100	0.000	0%
10-20	64.8	0.9%	100-110	0.000	0%
20-30	322.1	4.5%	110-120	0.000	0%
30-40	591.0	8.3%	120-130	0.000	0%
40-50	810.9	11.4%	130-140	0.000	0%
50-60	1,262.3	17.7%	140-150	0.000	0%
60-70	1,963.2	27.5%	150-160	0.000	0%
70-80	1,827.7	25.6%	160-170	0.000	0%
80-90	295.3	4.1%	170-180	0.000	0%

Roadway Summary

	Lumens	% Lamp
Distribution:	TYPE IV, MEDIUM	
Max Cd, 90 Deg Vert:	0.000	
Max Cd, 80 to <90 Deg:	2,794.6	
Downward Street Side:	5,574.0	78.1%
Downward House Side:	1,563.0	21.9%
Downward Total:	7,137.0	100%
Upward Street Side:	0.000	0%
Upward House Side:	0.000	0%
Upward Total:	0.000	0%
Total Lumens:	7,137.0	100%

LCS Table

BUG Rating	B2 - U0 - G3	
Forward Light	Lumens	Lumens %
Low(0-30):	230.2	3.2%
Medium(30-60):	1,875.0	26.3%
High(60-80):	3,218.7	45.1%
Very High(80-90):	250.2	3.5%
Back Light		
Low(0-30):	156.9	2.2%
Medium(30-60):	788.5	11%
High(60-80):	573.8	8%
Very High(80-90):	43.8	0.6%
Uplight		
Low(90-100):	0.000	0%
High(100-180):	0.000	0%
Trapped Light:	0.9	0%

ISF 221144APA10 VISUAL PHOTOMETRIC TOOL — PAGE 2 OF 4

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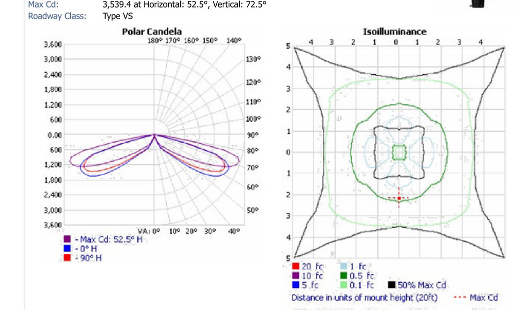
BEAM ILLUMINATING ARCHITECTURE — LUMINAIRE TYPE VD2C

1/31/24, 3:01 PM — ARDCL P203 XXXX 27K R5

OUTDOOR PHOTOMETRIC REPORT
CATALOG: ARDCL P203 XXXX 27K R5

AcuityBrands. AEL American Electric Lighting

Test #:	ISF 22284AP70
Test Lab:	SCALED PHOTOMETRY
Catalog:	ARDCL P203 XXXX 27K R5
Description:	ARDL American Revolution Deluxe LED Full Cutoff, P203 Performance Package, 2700K CCT, R5 Distribution
Series:	Series ARDCL LED - Full Cutoff
Lamp Output:	Total luminaire Lumens: 8952.7, absolute photometry *
Input Wattage:	90.0204
Luminous Opening:	Rectangle (L: 9", W: 9")
Max Cd:	3,539.4 at Horizontal: 52.5°, Vertical: 72.5°
Roadway Class:	Type VS



*Test based on absolute photometry where lamp lumens=lumens total.
*Cutoff Classification and efficiency cannot be properly calculated for absolute photometry.

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ISF 22284AP70 VISUAL PHOTOMETRIC TOOL — PAGE 1 OF 4

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BEAM ILLUMINATING ARCHITECTURE — LUMINAIRE TYPE VD2C

1/31/24, 3:01 PM — ARDCL P203 XXXX 27K R5

OUTDOOR PHOTOMETRIC REPORT
CATALOG: ARDCL P203 XXXX 27K R5

AcuityBrands.

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	246.9	2.8%
0-40	713.7	8%
0-60	3,556.5	39.7%
60-90	5,396.2	60.3%
70-100	2,449.0	27.4%
90-120	0.000	0%
0-90	8,952.7	100%
90-180	0.000	0%
0-180	8,952.7	100%

Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	0.1	0.0%	90-100	0.000	0%
10-20	33.8	0.4%	100-110	0.000	0%
20-30	213.0	2.4%	110-120	0.000	0%
30-40	466.8	5.2%	120-130	0.000	0%
40-50	935.7	10.5%	130-140	0.000	0%
50-60	1,907.2	21.3%	140-150	0.000	0%
60-70	2,947.1	32.9%	150-160	0.000	0%
70-80	2,223.3	24.8%	160-170	0.000	0%
80-90	225.7	2.5%	170-180	0.000	0%

Roadway Summary

	Lumens	% Lamp
Distribution:	Type VS	
Max Cd, 90 Deg Vert:	0.000	
Max Cd, 80 to <90 Deg:	2,527.0	
Downward Street Side:	4,475.9	50%
Downward House Side:	4,475.9	50%
Downward Total:	8,951.7	100%
Upward Street Side:	0.000	0%
Upward House Side:	0.000	0%
Upward Total:	0.000	0%
Total Lumens:	8,951.7	100%

LCS Table

BUG Rating	B4 - U0 - G2	
Forward Light	Lumens	Lumens %
Low(0-30):	123.3	1.4%
Medium(30-60):	1,654.1	18.5%
High(60-80):	2,586.1	28.9%
Very High(80-90):	112.3	1.3%
Back Light		
Low(0-30):	123.3	1.4%
Medium(30-60):	1,654.1	18.5%
High(60-80):	2,586.1	28.9%
Very High(80-90):	112.3	1.3%
Uplight		
Low(90-100):	0.000	0%
High(100-180):	0.000	0%
Trapped Light:	1.0	0%

ISF 22284AP70 VISUAL PHOTOMETRIC TOOL — PAGE 2 OF 4

https://www.visual-3d.com/tools/PhotometricViewer/Default.aspx?ID=1119126 — 2/4

BEAM ILLUMINATING ARCHITECTURE — FIXTURE TYPE SU1

ACCENT 120V
5012

WAC LANDSCAPE LIGHTING

Fixture Type:
Catalog Number:
Project:
Location:



PRODUCT DESCRIPTION
Landscape accent luminaire. Simple to retrofit existing line voltage systems or coordinate well with a new commercial landscape installation.

FEATURES
- Adjustable and lockable beam angle
- Integral dimmer
- IP66 rated, Protected against high-pressure water jets
- Includes a detachable shroud
- Solid diecast brass or corrosion resistant aluminum
- Factory sealed water tight fixtures
- Detachable shroud, 6' lead wire and wire nuts included
- Maintains constant lumen output against voltage drop
- UL 1598 Listed
- Not suitable to use with external dimmers

SPECIFICATIONS

Input:	110V - 120VAC
Power:	3.5W to 14.5W
Brightness:	100 lm to 900 lm
Beam Angle:	15° to 60°
CRI:	85
Rated Life:	45,000 hours

ORDERING NUMBER

		Color Temp		Finish	
5012	Accent 120V	30	3000K	BK	Black on Aluminum
				BZ	Bronze on Aluminum
				BBR	Bronze on Brass

5012-30____

Example: **5012-30BBR**

waclighting.com
Phone (800) 526.2588
Fax (800) 526.2585

Headquarters/Eastern Distribution Center
44 Harbor Park Drive
Port Washington, NY 11050

Central Distribution Center
1600 Distribution Ct
Lithia Springs, GA 30122

Western Distribution Center
1750 Archibald Avenue
Ontario, CA 91760

WAC Lighting retains the right to modify the design of our products at any time as part of the company's continuous improvement program. MAY 19 2021

BEAM ILLUMINATING ARCHITECTURE — FIXTURE TYPE SU1

ACCENT 120V
5012

WAC LANDSCAPE LIGHTING

Accessories

Accessory	Model	Finish	Description
Power Stake	M6000-STAKE	PVC	Easy wiring accessory designed for 12V & 120V products. Eliminates the need for a separate Junction box
Accent Snoot	5010-SNOOT-BK 5010-SNOOT-BZ 5010-SNOOT-BBR	Black on Aluminum Bronze on Aluminum Bronze on Brass	Shields lamp and reduces glare
6" Long Shroud	5010-LSHR-BK 5010-LSHR-BZ 5010-LSHR-BBR	Black on Aluminum Bronze on Aluminum Bronze on Brass	Reduce glare. Ideal for downlighting application
Gutter Mount Bracket	5000-GM-BZ 5000-GM-BK	Stainless Steel	Stainless Steel universal mounting bracket for gutter mounting fixture
Tree Mount Junction Box	5000-TCP-BZ 5000-TCP-BK	Bronze on Aluminum Black on Aluminum	Bronze on Aluminum box with Stainless steel mounting screws. Two ½" NPT threaded holes
Optics	LENS-20-AMB Amber LENS-20-GRN Green LENS-20-RED Red LENS-20-BLU Blue LENS-20-FR Frosted LENS-20-SPR Spread		Enhances saturation of florals and foliage
Extension Rods	5000-X04-BZ 4 in 5000-X04-BK 4 in 5000-X08-BZ 8 in 5000-X08-BK 8 in 5000-X12-BZ 12 in 5000-X12-BK 12 in 5000-X18-BZ 18 in 5000-X18-BK 18 in 5000-X24-BZ 24 in 5000-X24-BK 24 in		Extends distance between Accent light and Surface Mount Canopy, Stake, or Tree Mount box
Rod L-Coupler	5000-LCO-BZ	Bronze	

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BEAM ILLUMINATING ARCHITECTURE
BEAM, ltd.
2220 Mount Carmel Avenue
Glenside, PA 19038
T. 215.508.0900
www.beamltd.com

JASON BRADSHAW
LIGHTING CERTIFIED BY NCQLP
EXPIRATION 12.31.24
04/30/2024
DATE OF SIGN.
NCQLP LIGHTING LC CERTIFIED

No.	REVISION	DATE	CHKD
12			
11			
10			
9			
8			
7			
6			
5			
4	REVISED PER TOWNSHIP COMMENTS	03/31/25	SAD
3	REVISED PER ENGINEERING REVIEW	2/14/25	SAD
2	REVISED PER TOWNSHIP COMMENTS	12/18/24	SAD
1	REVISED PER PB COMPLETENESS REVIEW	09/10/24	SAD

PROJ.: 081391-01-001
DATE: 06/25/2024
CHKD: SAD

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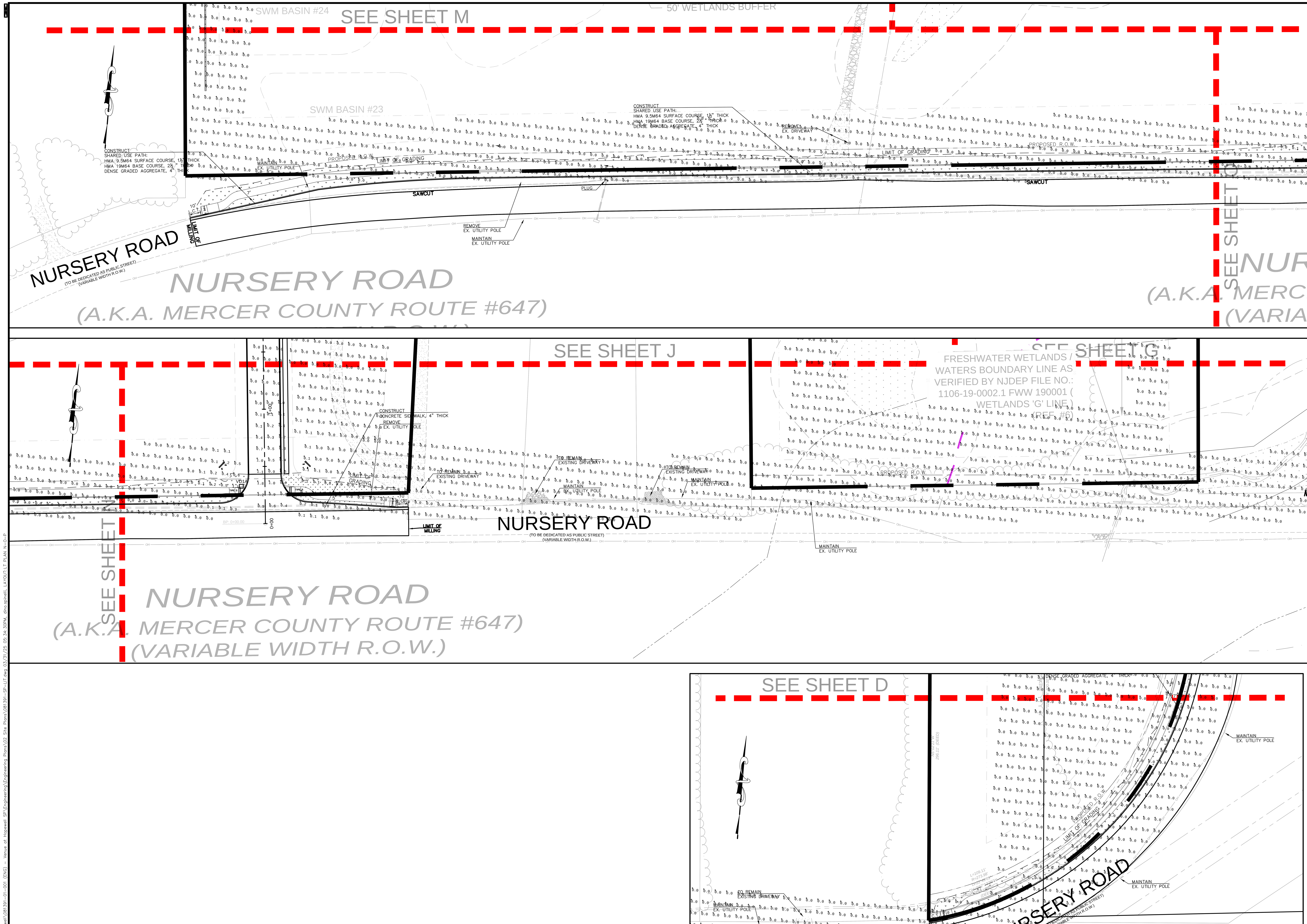
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SEAN A. DELANY, N.J. Professional Engineer, Lic. 24GE04447100

PRELIMINARY AND FINAL MAJOR SUBDIVISION &
PRELIMINARY AND FINAL SITE PLAN FOR
VENUE AT HOPEWELL

LIGHTING DETAILS

BLOCK 93, LOTS 19, 20, 45.01, 46 & 60
TOWNSHIP OF HOPEWELL, MERCER COUNTY, NEW JERSEY

SHEET No. 20
OF C



BEAM

ILLUMINATING ARCHITECTURE

BEAM, ltd.
2220 Mount Carmel Avenue
Glenside, PA 19038
T. 215.508.0900
www.beamltd.com

JASON BRADSHAW
LIGHTING CERTIFIED BY NCQLP
EXPIRATION 12.31.24
04/30/2024
DATE OF SIGN.

NCQLP LIGHTING CERTIFIED LC

V:\081391 - Nursery Road-Hopewell\081391-01-001 (ENG) - Venue at Hopewell SP\Engineering\Engineering Plans\02 Site Plans\081391-SP-LIT.dwg 03/31/25 05:34:30PM, dino.spinelli, LAYOUT:LT PLAN N-O-P

No.	REVISION	DATE	CHKD
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NJ Certificate of Authorization
No. 24GA28222600

SEAN A. DELANY, N.J. Professional Engineer, Lic. 24GE04447100

PRELIMINARY AND FINAL MAJOR SUBDIVISION &
PRELIMINARY AND FINAL SITE PLAN FOR

VENUE AT HOPEWELL

ENLARGED SITE LIGHTING PLAN - AREA N-O-P (MAINTAINED)

BLOCK 93, LOTS 19, 20, 45.01, 46 & 60
TOWNSHIP OF HOPEWELL, MERCER COUNTY, NEW JERSEY

SHEET No.
15
OF
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