November 6, 2023

Architectural Review Board
Town Hall Annex
238 Danbury Road
Wilton, CT 06897
Attn: Mr. Michael E. Wrinn, Town Planner

RE: Request for Design Review – Revised Materials
Project Site: 131 Danbury Road
Contract Purchaser: 131 Danbury Wilton Dev AMS LLC
(an affiliate of AMS Acquisitions, LLC)

Dear Mr. Chairman and Members of the Board,

On behalf of our client, 131 Danbury Wilton Dev AMS LLC (an affiliate of AMS Acquisitions, LLC) (the "Applicant"), the contract purchaser and potential developer of 131 Danbury Road, we are submitting additional materials intended to supplement the application documents submitted for Architectural Review Board review on October 19, 2023.

Included herewith for your consideration are the following documents:

1. Revised 31-page set produced by Beinfield Architecture originally dated October 19, 2023 with revisions made up to November 3, 2023, including floor plans, elevation drawings, renderings, a building section, materials selections and photos of neighboring properties from Danbury Road.
2. Site Lighting Photometric Calculation Plan revised to provide additional information regarding the new light poles, Sheet SL-1A, prepared by Apex Lighting Solutions, dated November 2, 2023
3. Site Lighting Specification Package

The Applicant looks forward to presenting their plans to the Board at its next meeting on November 9, 2023 and receiving a report to allow the Applicant to file the requisite applications with Planning and Zoning.

Sincerely,

Patrick B. Shurr, P.E.

131 DANBURY ROAD

BEINFIELD ARCHITECTURE

ARCHITECTURAL
REVIEW BOARD
SUBMISSION 10/19/23

PROJECT TEAM

OWNER
AMS ACQUISISTIONS LLC

1 BRG PLZ N
FORT LEE, NJ 07024

212-695-7585

ARCHITECT
BEINFEILD ARCHITECTURE PC

11 CHESTNUT ST, SUITE 102
SOUTH NORWALK, CT 06854

203-838-5789

CIVIL ENGINEER & SURVEYOR
SLR CONSULTING

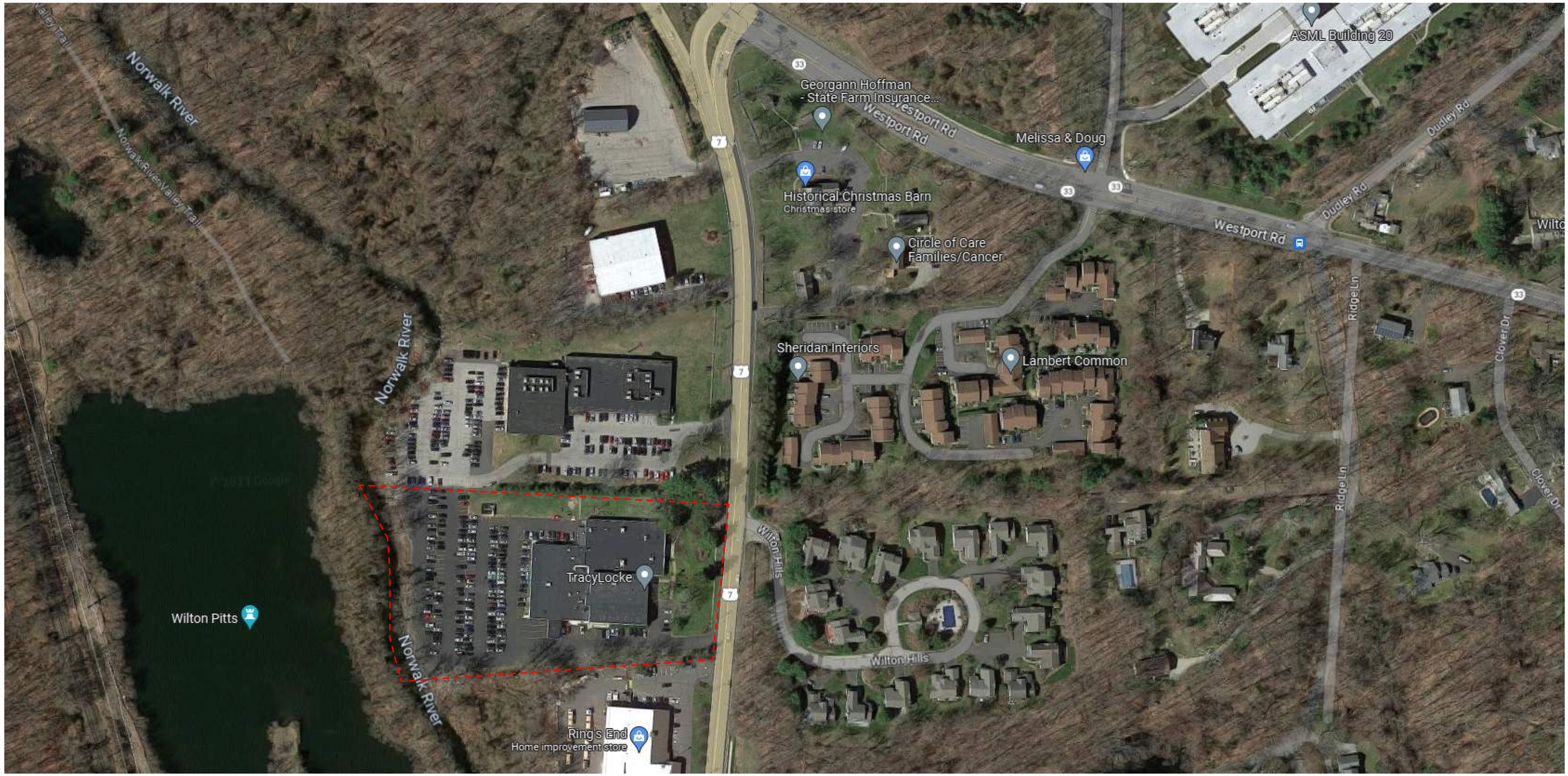
195 CHURCH STREET, 7TH FLOOR
NEW HAVEN, CONNECTICUT, 06510

203-454-2110

LANDSCAPE ARCHITECT
SLR CONSULTING

195 CHURCH STREET, 7TH FLOOR
NEW HAVEN, CONNECTICUT, 06510

203-454-2110



BEINFIELD ARCHITECTURE PC
203.838.5789 | 11 Chestnut Street #102 | South Norwalk, CT 06854

STATE OF CONNECTICUT
BRUCE D. BEINFIELD
NO. 05787
LICENSED ARCHITECT

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ZONING ANALYSIS

ZONING DATA TABLE

ZONE: DE-5R	REQUIRED/PERMITTED (LOTS WEST OF DANBURY RD)	PROVIDED
SITE AREA	-	4.75 AC (206,986 SF)
MINIMUM FRONT YARD	75	75
MINIMUM SIDE YARD (EACH)	50	57
ABBUTTING A RESI. DISTRICT	100	-
MINIMUM REAR YARD	50	111
ABBUTTING A RESI. DISTRICT	50	-
MINIMUM PARKING & LOADING SETBACKS		
SIDE AND REAR YARDS	10	10
ABUTTING A RESI. DISTRICT	75	-
MINIMUM SETBACKS TO NORWALK RIVER		
BUILDING	80	80
PARKING & LOADING	60	60
MAXIMUM BUILDING HEIGHT (ST/FT)	4 / 55 FT (a) (b)	4.5 / 52.3 FT
MAXIMUM BUILDING COVERAGE (%)	40% (82,794 SF)	39.95% (82,690 SF)
MAXIMUM SITE COVERAGE (%)	75% (155,239 SF)	TBD
MINIMUM OVERLAY OR LOT SIZE (AC)	3 ACRES	4.74 ACRES
MINIMUM LOT FRONTAGE	150	292
MINIMUM % OF AFFORDABLE HOUSING DU	10% (c)	10%
PARKING	1 SPACE / ST & 1 BR 2 SPACES / 2 & 3 BR 321 REQUIRED	321 1.55 RATIO

Notes
A. Except as otherwise provided in Section 29-4.C.1

B. An additional 10' may be permitted to accommodate an additional One-Half Story.

C. Conforming to the requirements of Section 29-5.B.10. except for the minimum % in 29-5.B.10.e.

PARKING ANALYSIS

PARKING SCHEDULE (ZONING)

STALL TYPE	COUNT
COVERED	
Parking Space - BA: 8' x 18' ADA VAN	2
Parking Space - BA: 10' x 18' ADA CAR	4
Parking Space - BA: Standard Car Stall 9' X 18'	201
	207
SURFACE	
Parking Space - BA: 8' x 18' ADA VAN	3
Parking Space - BA: 10' x 18' ADA CAR	2
Parking Space - BA: Standard Car Stall 9' X 18'	107
Parking Space: 8' x 22' - parallel	2
	114
TOTAL PARKING SPACES:	**321**

PARKING SCHEDULE (MARKET)

STALL TYPE	COUNT
COVERED	
Parking Space - BA: 8' x 18' ADA VAN	2
Parking Space - BA: 10' x 18' ADA CAR	4
Parking Space - BA: Standard Car Stall 9' X 18'	201
Parking Space - BA: Standard Car Stall 9' X 18' Tandem	22
	229
SURFACE	
Parking Space - BA: 8' x 18' ADA VAN	3
Parking Space - BA: 10' x 18' ADA CAR	2
Parking Space - BA: Standard Car Stall 9' X 18'	107
Parking Space: 8' x 22' - parallel	2
	114
TOTAL MARKET PARKING SPACES:	**343**

BUILDING AREAS BY PROGRAM

AREA SCHEDULE (BY PROGRAM)

LEVEL	AREA
AMENITY	
LEVEL 1	7,350 SF
LEVEL 2	3,625 SF
	10,975 SF
CIRCULATION	
BASEMENT	765 SF
LEVEL 1	5,675 SF
LEVEL 2	5,955 SF
LEVEL 3	5,955 SF
LEVEL 4	6,030 SF
LEVEL 4.5 - LOFT	715 SF
	25,090 SF
MECHANICAL	
BASEMENT	2,550 SF
LEVEL 1	935 SF
LEVEL 2	935 SF
LEVEL 3	935 SF
LEVEL 4	935 SF
	6,290 SF
RESIDENTIAL	
LEVEL 1	48,130 SF
LEVEL 2	49,235 SF
LEVEL 3	52,035 SF
LEVEL 4	51,590 SF
LEVEL 4.5 - LOFT	5,865 SF
	206,855 SF
	249,210 SF

AREA SCHEDULE (PARKING)

LEVEL	AREA
PARKING	
BASEMENT	75,340 SF

BUILDING AREAS BY LEVEL

AREA SCHEDULE (BY FLOOR)

PROGRAM	AREA
BASEMENT	
CIRCULATION	765 SF
MECHANICAL	2,550 SF
	3,320 SF
LEVEL 1	
AMENITY	7,350 SF
CIRCULATION	5,675 SF
MECHANICAL	935 SF
RESIDENTIAL	48,130 SF
	62,090 SF
LEVEL 2	
AMENITY	3,625 SF
CIRCULATION	5,955 SF
MECHANICAL	935 SF
RESIDENTIAL	49,235 SF
	59,750 SF
LEVEL 3	
CIRCULATION	5,955 SF
MECHANICAL	935 SF
RESIDENTIAL	52,035 SF
	58,925 SF
LEVEL 4	
CIRCULATION	6,030 SF
MECHANICAL	935 SF
RESIDENTIAL	51,590 SF
	58,555 SF
LEVEL 4.5 - LOFT	
CIRCULATION	715 SF
RESIDENTIAL	5,865 SF
	6,575 SF
	249,210 SF

UNIT SCHEDULES

UNIT MIX

UNIT TYPE	COUNT	PERCENTAGE
1 BR	95	46%
2 BR	105	50%
3 BR	8	4%
	208	**100%**

UNIT SCHEDULE

UNIT TYPE	COUNT
LEVEL 1	
1 BR	19
1 BR JR	2
2 BR	26
3 BR	2
	49
LEVEL 2	
1 BR	20
1 BR JR	2
1 BR+	2
1 BR	1
2 BR	24
3 BR	2
	51
LEVEL 3	
1 BR	23
1 BR JR	3
2 BR	26
3 BR	2
	54
LEVEL 4	
1 BR	21
1 BR JR	3
2 BR	17
2 BR LOFT	11
3 BR	2
	54
	208

BUILDING SUMMARY

BUILDING SUMMARY

GROSS SF	TOTAL NRSF	AMENITY SF	UNIT COUNT	PARKING COUNT
4.5 STORIES				
249,210	206,855	10,975	208	321

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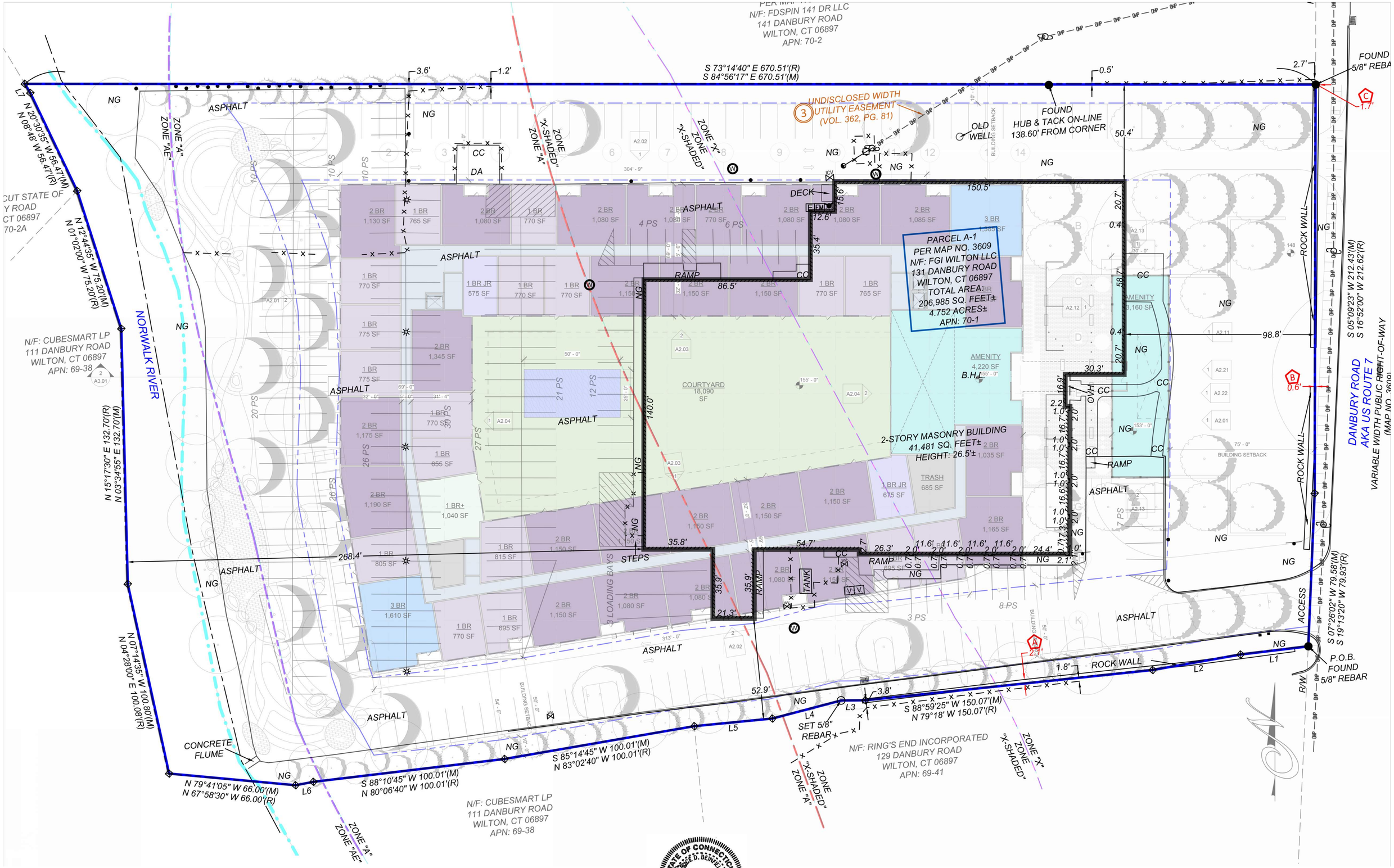
PARCEL A-1
PER MAP NO. 3609
N/F: FGI WILTON LLC
131 DANBURY ROAD
WILTON, CT 06897
TOTAL AREA:
206,985 SQ. FEET±
4.752 ACRES±
APN: 70-1
2-STORY MASONRY BUILDING
41,481 SQ. FEET±
HEIGHT: 26.5'±
COURTYARD
18,090
SF
AMENITY
4,220 SF
B.H.L.
AMENITY
3,160 SF
TRASH
685 SF
RAMP
DECK
ELEV.
ASPHALT
ROCK WALL
ACCESS
STEPS
CONCRETE
FLUME
NORWALK RIVER
DANBURY ROAD
AKA US ROUTE 7
VARIABLE WIDTH PUBLIC RIGHT-OF-WAY
(MAP NO. 3609)
UNDISCLOSED WIDTH
UTILITY EASEMENT
(VOL. 362, PG. 81)
OLD
WELL
FOUND
HUB & TACK ON-LINE
138.60' FROM CORNER
FOUND
5/8" REBA
P.O.B.
FOUND
5/8" REBAR
SET 5/8"
REBAR
N/F: CUBESMART LP
111 DANBURY ROAD
WILTON, CT 06897
APN: 69-38
N/F: FDSPIN 141 DR LLC
141 DANBURY ROAD
WILTON, CT 06897
APN: 70-2
N/F: RING'S END INCORPORATED
129 DANBURY ROAD
WILTON, CT 06897
APN: 69-41
ZONE "A"
ZONE "AE"
ZONE "X-SHADED"
ZONE "X"
BUILDING SETBACK
S 73°14'40" E 670.51'(R)
S 84°56'17" E 670.51'(M)
N 20°30'35" W 56.47'(R)
N 08°48' W 56.47'(M)
N 12°44'35" W 75.20'(M)
N 01°02'00" W 75.20'(R)
N 15°17'30" E 132.70'(R)
N 03°34'55" E 132.70'(M)
N 07°14'35" W 100.80'(M)
N 04°28'00" E 100.08'(R)
S 05°09'23" W 212.43'(M)
S 16°52'00" W 212.62'(R)
S 07°26'02" W 79.58'(M)
S 19°13'20" W 79.93'(R)
N 79°41'05" W 66.00'(M)
N 67°58'30" W 66.00'(R)
S 88°10'45" W 100.01'(M)
N 80°06'40" W 100.01'(R)
S 85°14'45" W 100.01'(M)
N 83°02'40" W 100.01'(R)
S 88°59'25" W 150.07'(M)
N 79°18' W 150.07'(R)
268.4'
140.0'
98.8'
150.5'
86.5'
35.4'
35.8'
54.7'
52.9'
35.9'
21.3'
26.3'
3.6'
1.2'
2.7'
0.5'
50.4'
30.3'
20.7'
15.6'
12.6'
1.7'
0.6'
2.1'
1.8'
3.8'
L1
L2
L3
L4
L5
L6
1 BR 770 SF
1 BR 765 SF
2 BR 1,130 SF
2 BR 1,080 SF
1 BR 775 SF
2 BR 1,345 SF
2 BR 1,175 SF
1 BR 655 SF
2 BR 1,190 SF
1 BR+ 1,040 SF
1 BR 805 SF
2 BR 1,150 SF
1 BR 815 SF
3 BR 1,610 SF
1 BR 695 SF
1 BR JR 575 SF
2 BR 1,085 SF
3 BR 1,385 SF
2 BR 1,165 SF
1 BR JR 675 SF
2 BR 1,035 SF
2 BR 1,080 SF
1 BR 695 SF
2 BR 1,080 SF
1 BR 770 SF
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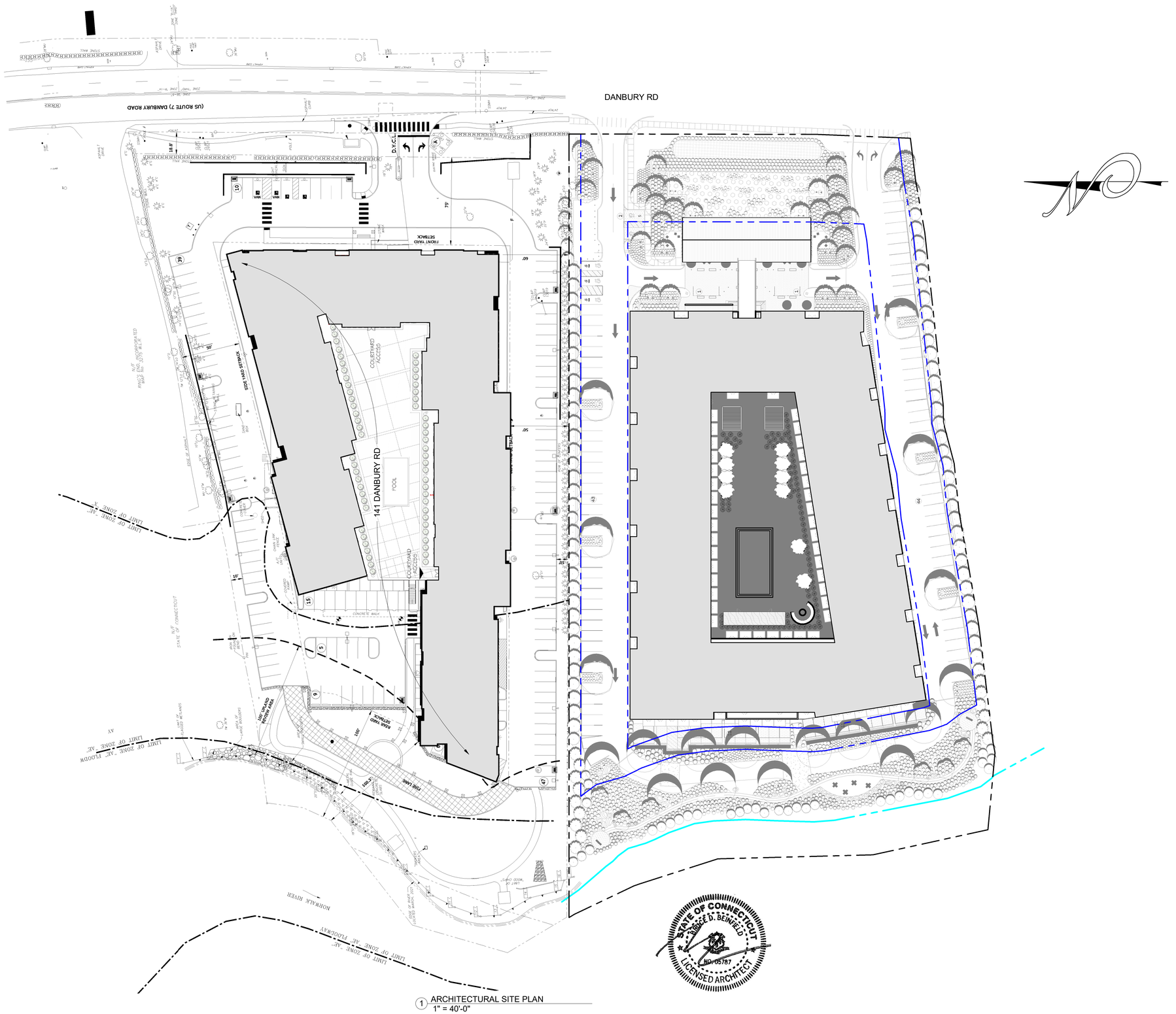
1 BR 770 SF
2 BR 1,080 SF
1 BR 770



1 ARCHITECTURAL SITE PLAN
1" = 40'-0"

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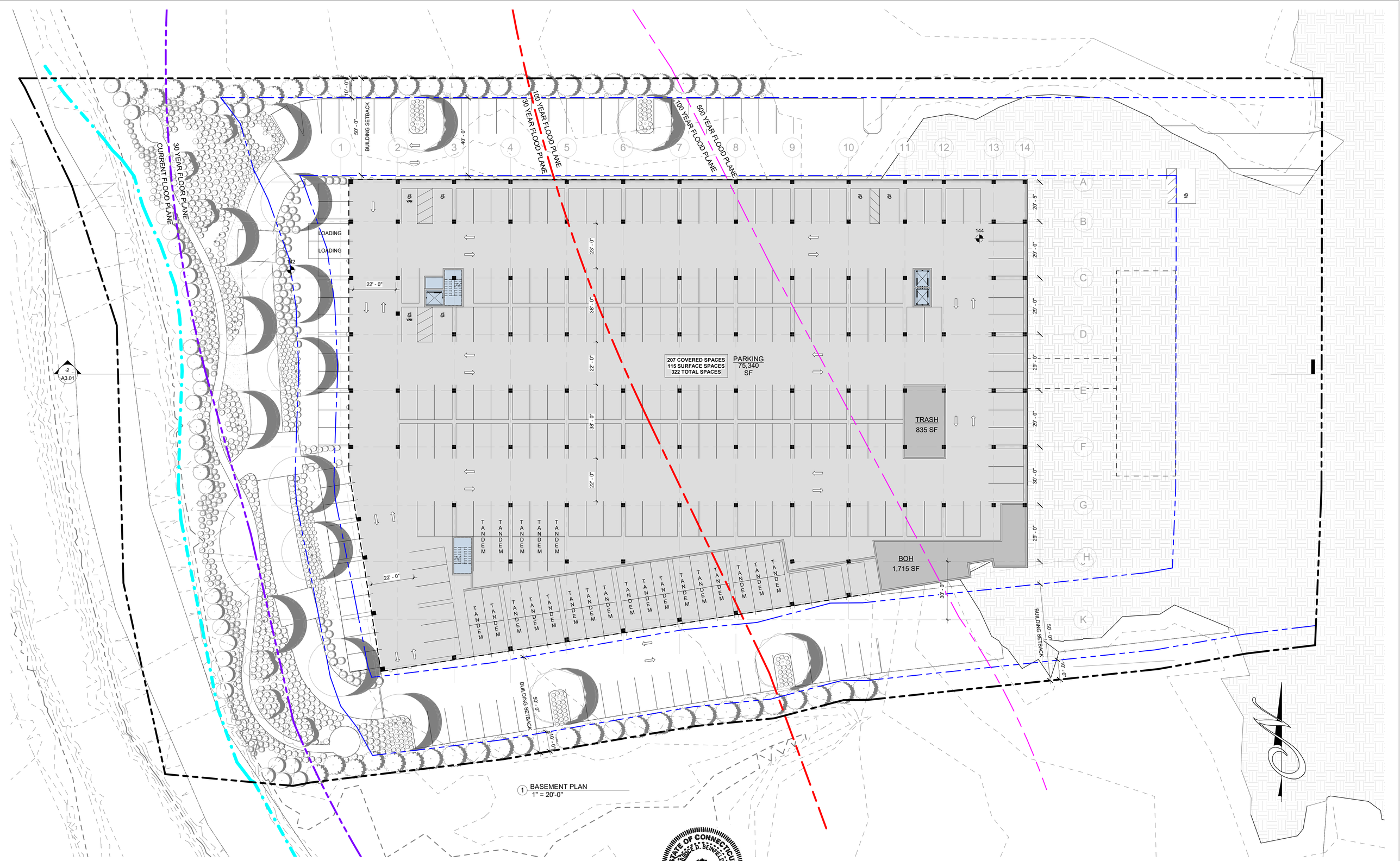

1 BASEMENT PLAN
1" = 20'-0"

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131 DANBURY ROAD | 10/19/23 | BASEMENT PLAN | A1.01

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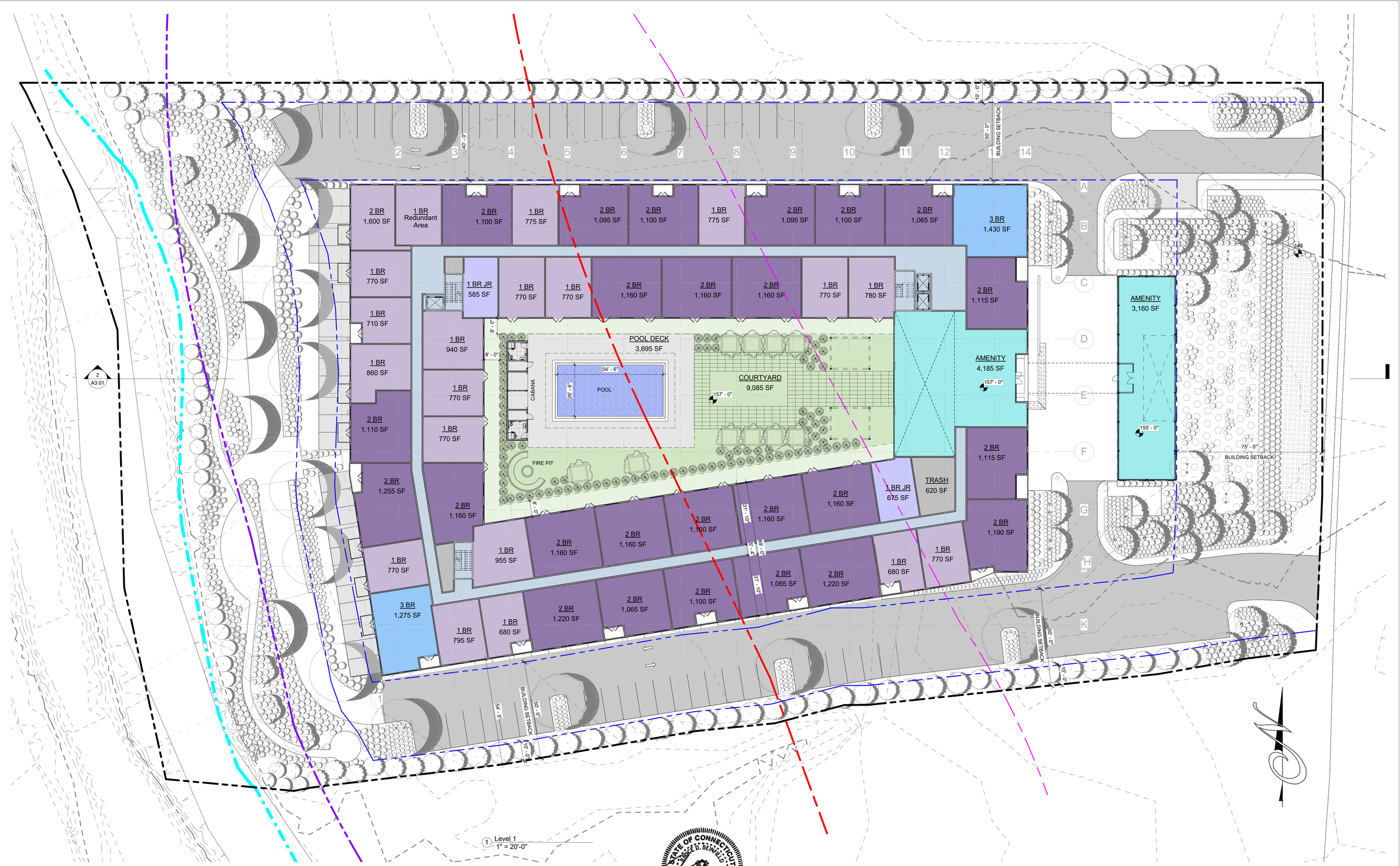

1 Level 1
1" = 20'-0"

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BRUCE D. BEINFIELD
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131 DANBURY ROAD | 10/19/23 | FIRST FLOOR PLAN | A1.02

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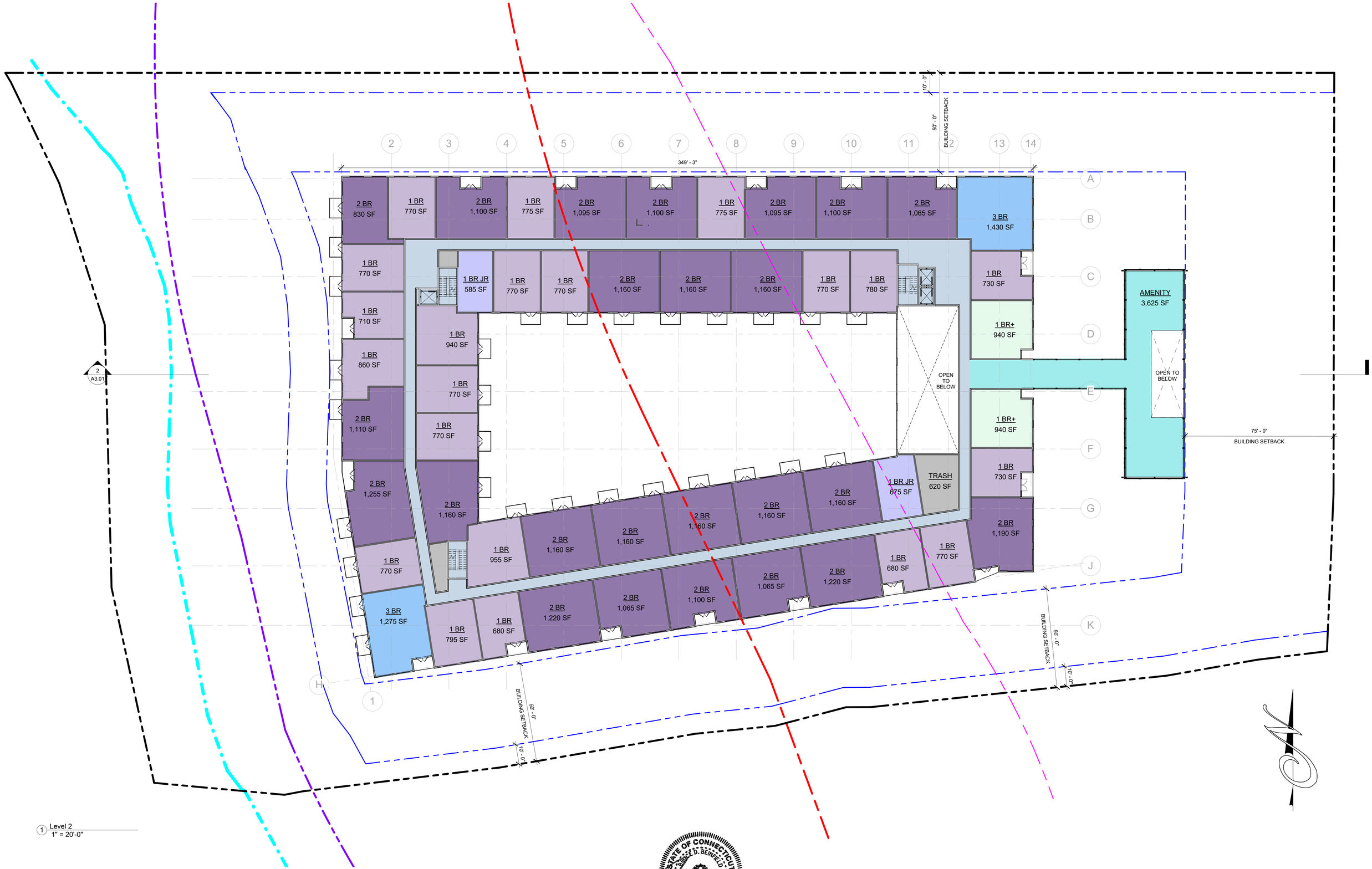

1 Level 2
1" = 20'-0"

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131 DANBURY ROAD | 10/19/23 | SECOND FLOOR PLAN | A1.03

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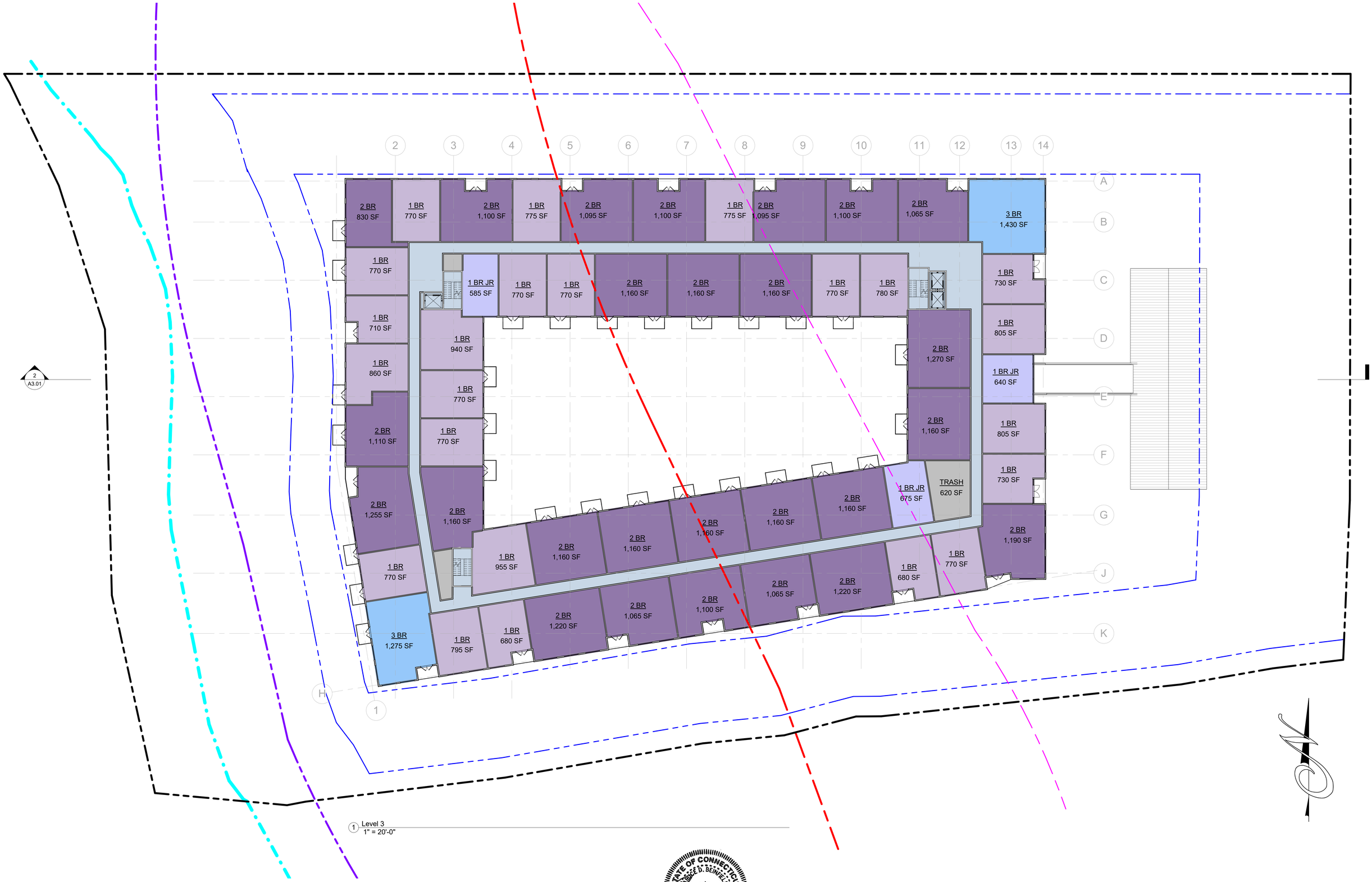
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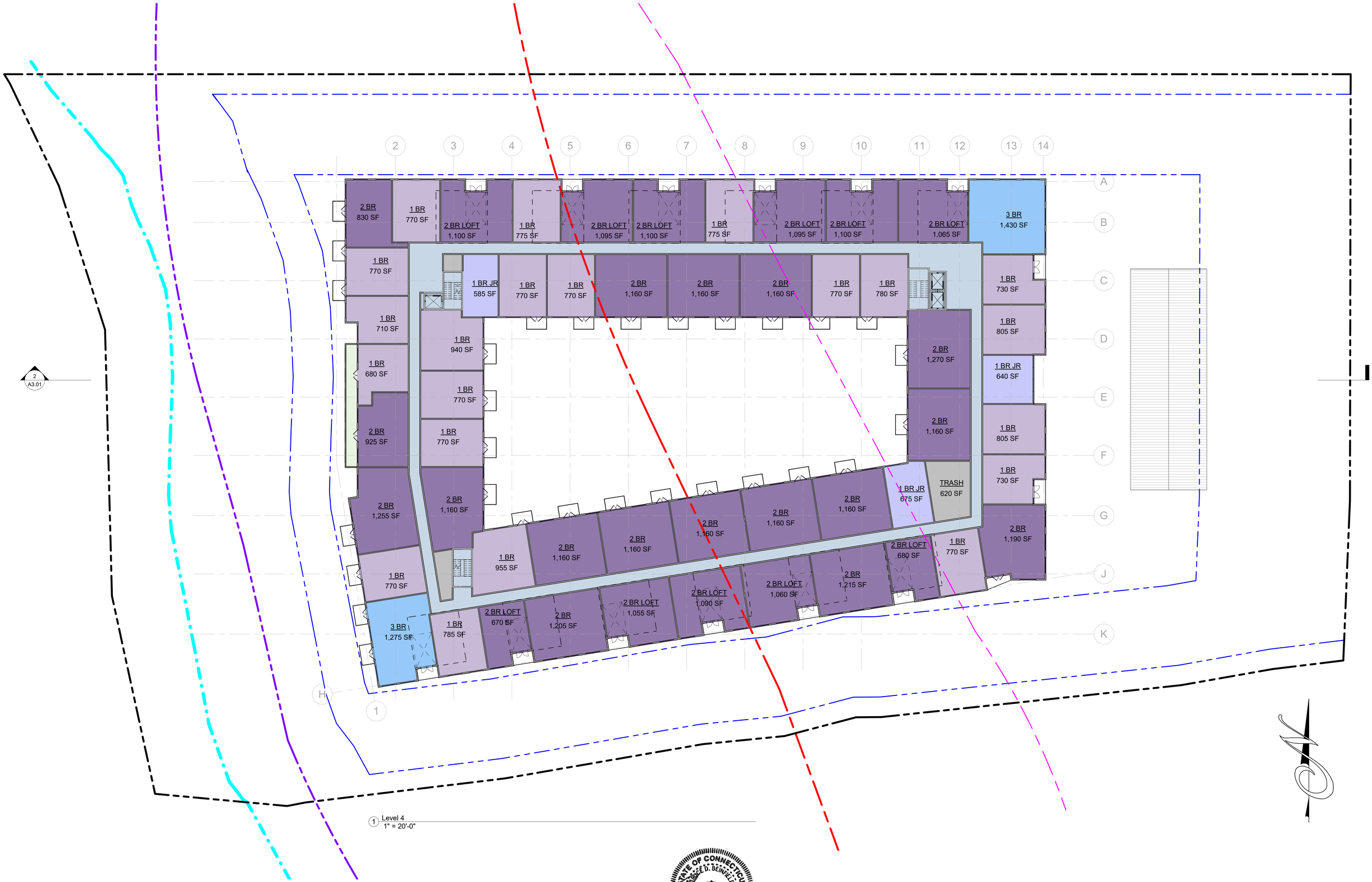
1
2 BR 830 SF
1 BR 770 SF
2 BR 1,100 SF
1 BR 775 SF
2 BR 1,095 SF
2 BR 1,100 SF
1 BR 775 SF
2 BR 1,095 SF
2 BR 1,100 SF
2 BR 1,065 SF
3 BR 1,430 SF
1 BR 770 SF
1 BR 710 SF
1 BR 860 SF
2 BR 1,110 SF
2 BR 1,255 SF
1 BR 770 SF
3 BR 1,275 SF
1 BR JR 585 SF
1 BR 770 SF
1 BR 770 SF
2 BR 1,160 SF
2 BR 1,160 SF
2 BR 1,160 SF
1 BR 770 SF
1 BR 780 SF
1 BR 940 SF
1 BR 770 SF
1 BR 770 SF
2 BR 1,160 SF
1 BR 955 SF
2 BR 1,160 SF
2 BR 1,160 SF
2 BR 1,160 SF
2 BR 1,160 SF
2 BR 1,160 SF
1 BR 795 SF
1 BR 680 SF
2 BR 1,220 SF
2 BR 1,065 SF
2 BR 1,100 SF
2 BR 1,065 SF
2 BR 1,220 SF
1 BR 680 SF
1 BR 770 SF
2 BR 1,270 SF
2 BR 1,160 SF
1 BR JR 675 SF
TRASH 620 SF
1 BR 730 SF
1 BR 805 SF
1 BR JR 640 SF
1 BR 805 SF
1 BR 730 SF
2 BR 1,190 SF
2 BR 1,160 SF
2 BR 1,160 SF
2 BR 1,160 SF
2 BR 1,160 SF
2 BR 1,160



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131 DANBURY ROAD | 10/19/23 | FOURTH FLOOR PLAN | A1.05

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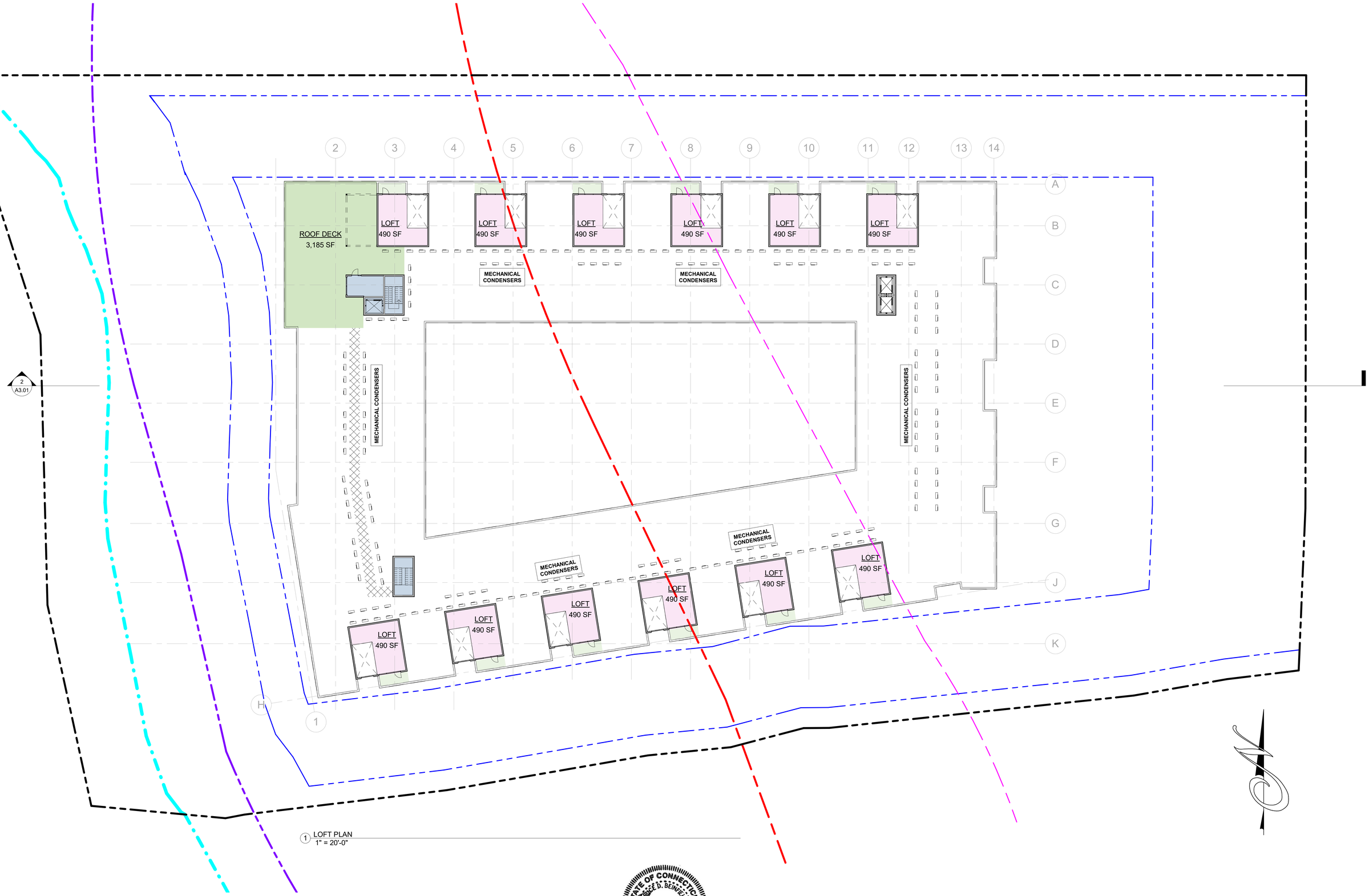

1 LOFT PLAN
1" = 20'-0"

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131 DANBURY ROAD | 10/19/23 | LOFT / ROOF PLAN | A1.06

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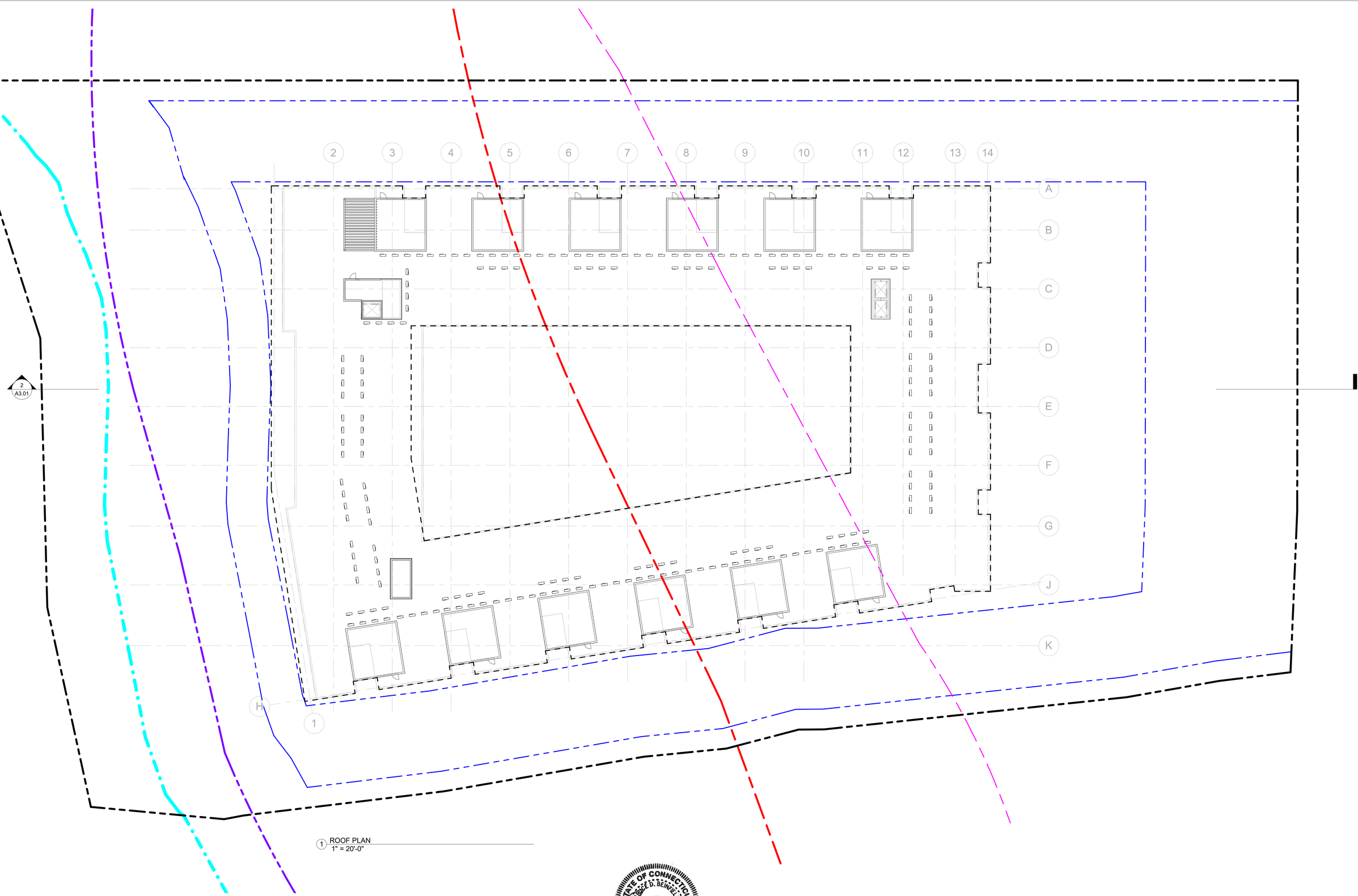

1 ROOF PLAN
1" = 20'-0"

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BRUCE D. BEINFIELD
No. 05787
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131 DANBURY ROAD | 10/19/23 | ROOF PLAN | A1.07

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0' 8' 16' 32' 64'

1/16" = 1'-0"

0" 1/2" 1" 2" 4"

BEINFIELD ARCHITECTURE PC
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STATE OF CONNECTICUT
BRIAN D. BEINFIELD
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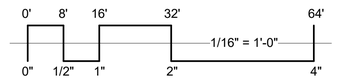

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131 DANBURY ROAD | 10/23/23 | NORTH ELEVATION | A2.25

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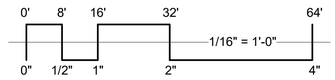

BEINFIELD ARCHITECTURE PC
203.838.5789 | 11 Chestnut Street #102 | South Norwalk, CT 06854

STATE OF CONNECTICUT
BRUCE D. BEINFIELD
NO. 05787
LICENSED ARCHITECT

131 DANBURY ROAD | 10/23/23 | WEST ELEVATION | A2.26

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0' 8' 16' 32' 64'

1/16" = 1'-0"

0" 1/2" 1" 2" 4"

BEINFIELD ARCHITECTURE PC
203.838.5789 | 11 Chestnut Street #102 | South Norwalk, CT 06854

STATE OF CONNECTICUT
ROBERT D. BEINFIELD
NO. 05787
LICENSED ARCHITECT

131 DANBURY ROAD | 10/23/23 | SOUTH ELEVATION | A2.27

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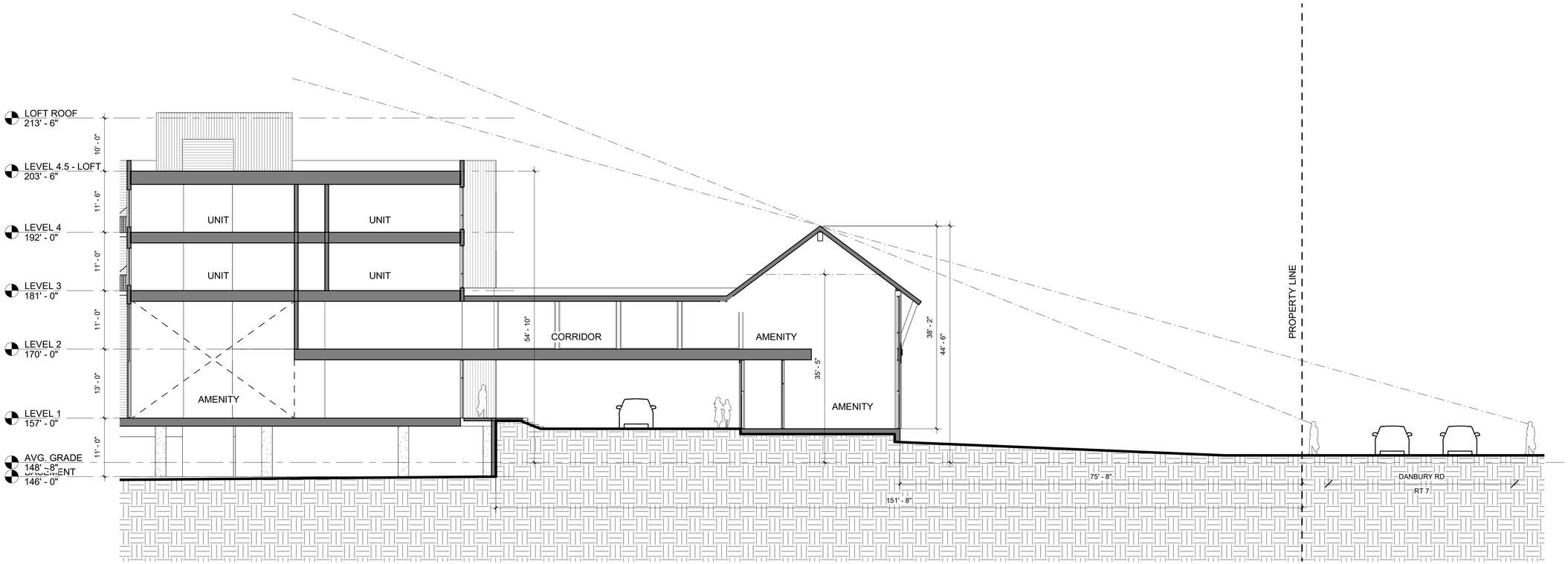
2 BUILDING SECTION
1" = 20'-0"



1 ENLARGED BUILDING SECTION
1" = 10'-0"

BEINFIELD ARCHITECTURE PC
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STATE OF CONNECTICUT
BRUCE D. BEINFIELD
NO. 05787
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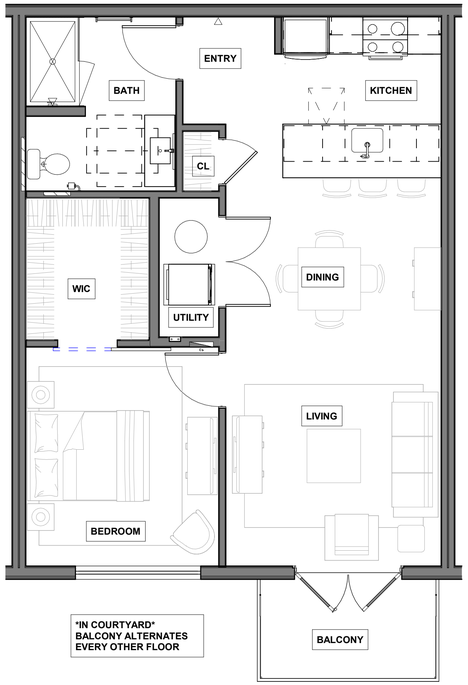
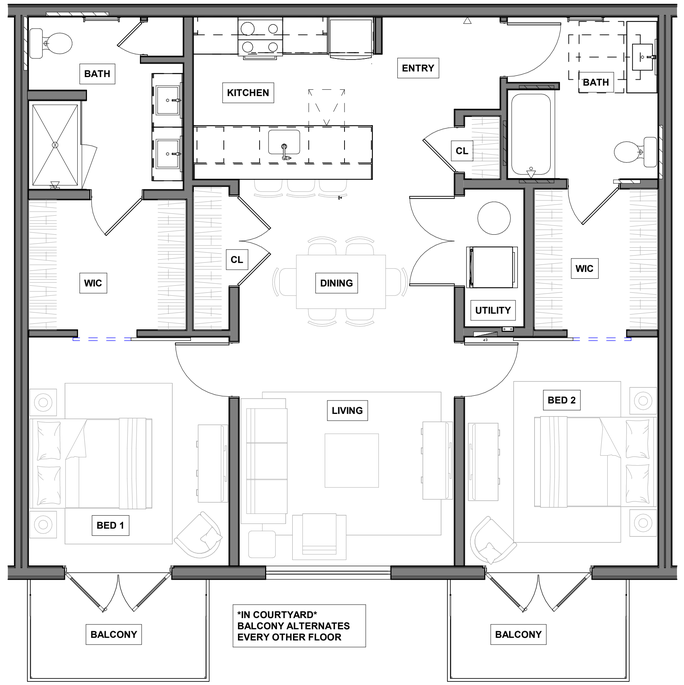
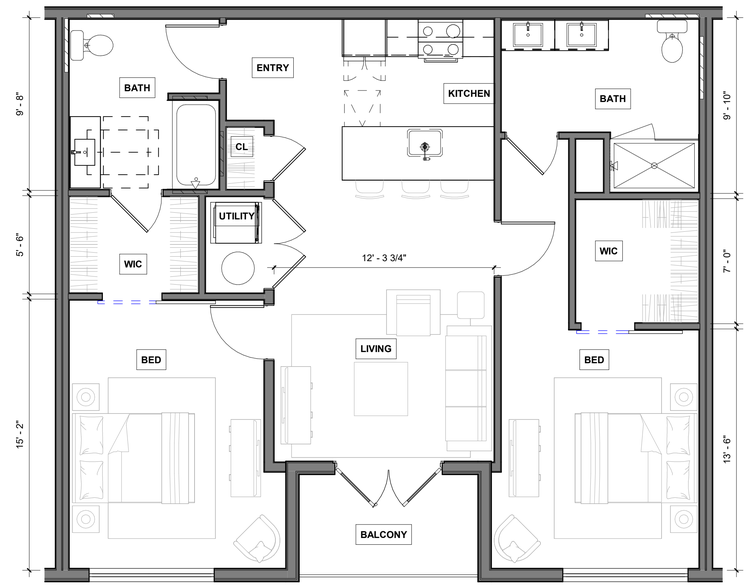


1 TYPICAL 1BR UNIT
1/4" = 1'-0"



2 TYPICAL 2BR UNIT
1/4" = 1'-0"



3 TYPICAL 2BR UNIT
1/4" = 1'-0"

BEINFIELD ARCHITECTURE PC
203.838.5789 | 11 Chestnut Street #102 | South Norwalk, CT 06854

STATE OF CONNECTICUT
BRUCE D. BEINFIELD
NO. 05787
LICENSED ARCHITECT

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BEINFIELD ARCHITECTURE PC
203.838.5789 | 11 Chestnut Street #102 | South Norwalk, CT 06854

131 Danbury Road | 11.03.2023

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BEINFIELD ARCHITECTURE PC
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STATE OF CONNECTICUT
BRUCE D. BEINFIELD
NO. 05787
LICENSED ARCHITECT

131 DANBURY ROAD | 10/19/23 | HAND RENDERING | A9.01

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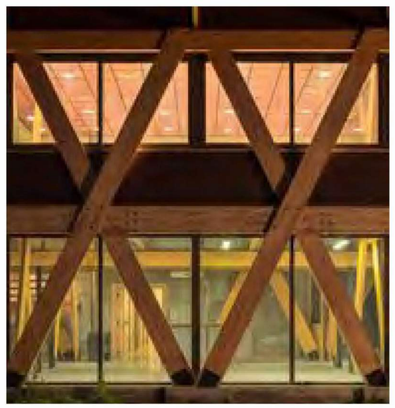
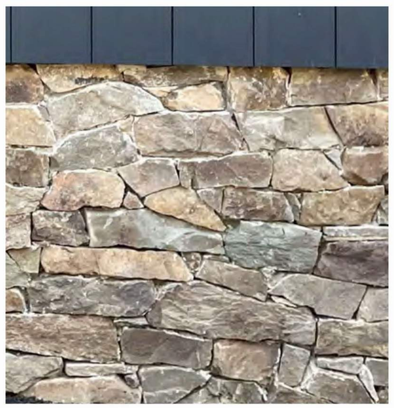
1. Standing Seam Roof



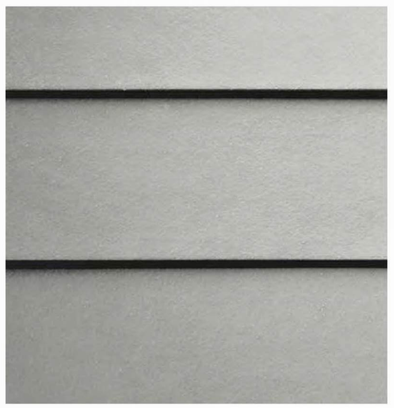
2.Timber Structure



3. Stone Foundation

4. Aluminum Panel

5a. Gray Brick



5b. Fiber Cement Siding

BEINFIELD ARCHITECTURE PC
203.838.5789 | 11 Chestnut Street #102 | South Norwalk, CT 06854

STATE OF CONNECTICUT
BRUCE D. BEINFIELD
NO. 05787
LICENSED ARCHITECT

131 DANBURY ROAD | 10/19/23 | MATERIALS BOARD | A9.02

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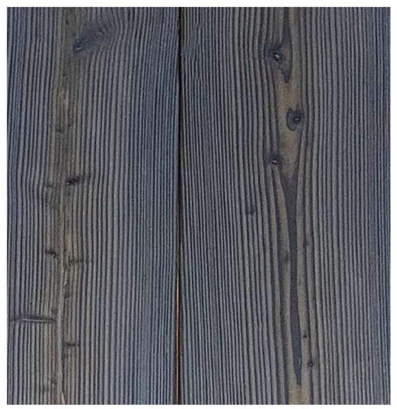
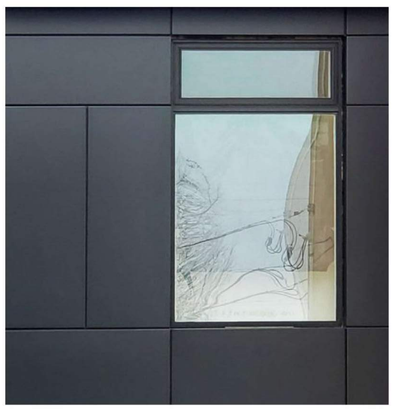
2. Standing Seam Roof



5c.Shou Sugi Ban Siding



6. Aluminum Panel

BEINFIELD ARCHITECTURE PC
203.838.5789 | 11 Chestnut Street #102 | South Norwalk, CT 06854

STATE OF CONNECTICUT
BRUCE D. BEINFIELD
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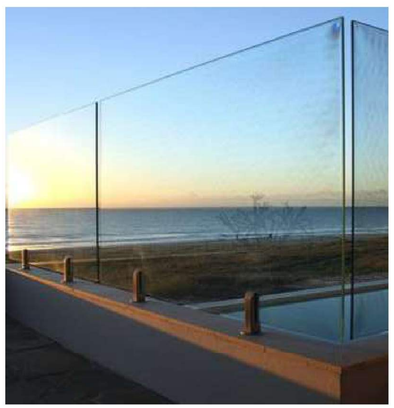
4. Aluminum Panel

5c. Shou Sugi Ban Siding



6. Glass Railing

BEINFIELD ARCHITECTURE PC
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STATE OF CONNECTICUT · BRUCE D. BEINFIELD · NO. 05787 · LICENSED ARCHITECT

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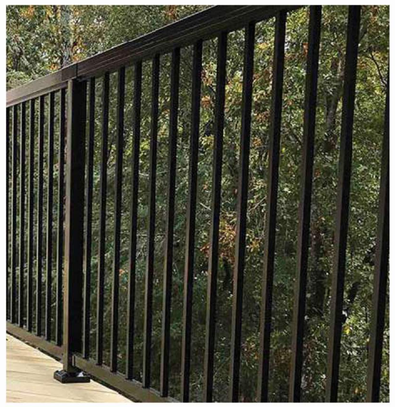
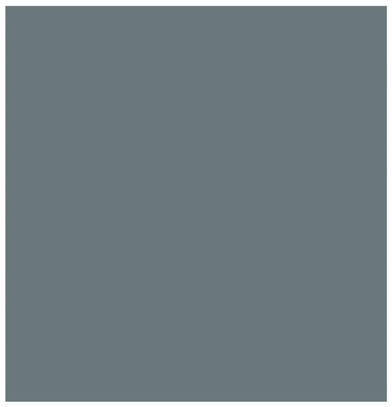
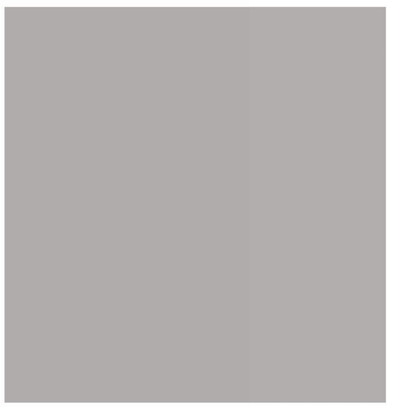


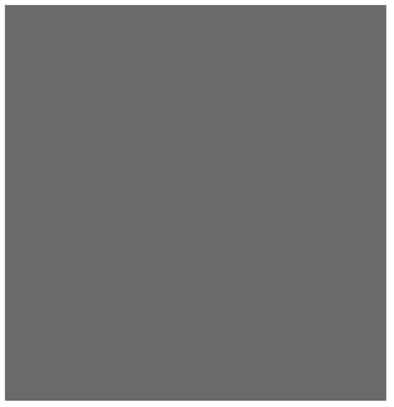
Guardrail



Fiber Cement Panel



Fiber Cement Panel



Vertical Fiber Cement Siding

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1. Cube Smart - 111 Danbury Rd.

2. Power Station - Danbury Rd.

3. Rings End - 129 Danbury Rd.

4. 131 Danbury Rd.

5. 141 Danbury Rd.

6. 149 Danbury Rd.

BEINFIELD ARCHITECTURE PC
203.838.5789 | 11 Chestnut Street #102 | South Norwalk, CT 06854

STATE OF CONNECTICUT
BRUCE D. BEINFIELD
NO. 05787
LICENSED ARCHITECT

131 Danbury Road | 11.01.2023

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BEINFIELD ARCHITECTURE PC
203.838.5789 | 11 Chestnut Street #102 | South Norwalk, CT 06854

STATE OF CONNECTICUT
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BEINFIELD ARCHITECTURE PC
203.838.5789 | 11 Chestnut Street #102 | South Norwalk, CT 06854

STATE OF CONNECTICUT
BRUCE D. BEINFIELD
NO. 05787
LICENSED ARCHITECT

131 Danbury Road | 11.01.2023 | 129 Danbury Road - Rings End

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BEINFIELD ARCHITECTURE PC
203.838.5789 | 11 Chestnut Street #102 | South Norwalk, CT 06854

STATE OF CONNECTICUT
BRUCE D. BEINFIELD
NO. 05787
LICENSED ARCHITECT

131 Danbury Road | 11.01.2023 | 131 Danbury Road

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BEINFIELD ARCHITECTURE PC
203.838.5789 | 11 Chestnut Street #102 | South Norwalk, CT 06854

STATE OF CONNECTICUT
ROBERT D. BEINFIELD
NO. 05787
LICENSED ARCHITECT

131 Danbury Road | 11.01.2023 | 141 Danbury Road

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BEINFIELD ARCHITECTURE PC
203.838.5789 | 11 Chestnut Street #102 | South Norwalk, CT 06854

STATE OF CONNECTICUT
BRUCE D. BEINFIELD
NO. 05787
LICENSED ARCHITECT

131 Danbury Road | 11.01.2023 | 149 Danbury Road

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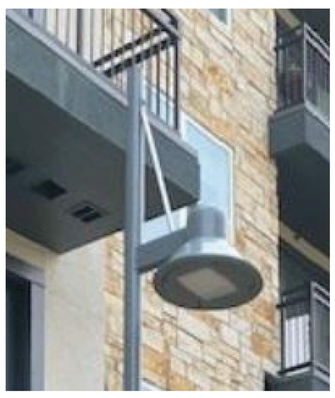
JOB NAME: AMS WILTON - 131 DANBURY RD - WILTON, CT
APEX LIGHTING SOLUTIONS
WORKPLANE/CALC PLANE: AT FINISH GRADE
MOUNTING HEIGHT: SEE LUMINAIRE SCHEDULE
APPS: LED/PD
SALES: SP
SPECIFIER: SLR CONSULTING



POLE LIGHT - FIXTURE

POLE LIGHT - POLE

BOLLARD

UPLIGHT

BUILDING SONCE

Luminaire Schedule									
Symbol	Qty	Label	Arrangement	Lum. Lumens	Lum. Watts	LLF	Description	[MANUFAC]	Filename
	22	B3	Single	492	6.1	0.748	PBL-42-14L-100-WW-G2-3-UNV-BK	PHILIPS GARDCO	PBL-14L-100-NW-G2-3-UNV.ies
	1	B5	Single	538	6.1	0.748	PBL-42-14L-100-WW-G2-5-UNV-BK	PHILIPS GARDCO	PBL-14L-100-NW-G2-5-UNV.ies
	2	SA3	Single	9120	73	0.850	HER-48-3-500-T3-VOLT-LT-BLK / DS210-590A200-18-TBD-SUBLIMATION-DT-AB	RAGNI	EVO2-ASY10-48L(2x8)G4-3000K500mA.IES
	2	SA3H	Single	8084	73.1	0.850	HER-48-3-500-T3-VOLT-LT-BLK-HS / DS210-590A200-18-TBD-SUBLIMATION-DT-AB	RAGNI	EVO2-C13301-C17677BLK-48LED-3000K-500 mA.IES
	10	SA4H	Single	7359	73.1	0.850	HER-48-3-500-T4-VOLT-LT-BLK-HS / DS210-590A200-18-TBD-SUBLIMATION-DT-AB	RAGNI	EVO2-C13805-C17677BLK-48LED-3000K-500 mA.IES
	86	TL	Single	669	10	0.850	BL9-D-W-A-S7	PHILIPS HADCO	BL9_10W_WW_med.ies
	10	WP3	Single	3254	30	0.850	PWS-196L-650-WW-G3-3-UNV / Wall Mounted 12ft	GARDCO	PWS-196L-650-WW-G2-3-UNV.ies

Calculation Summary								
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min	Description
Parking Lot	Illuminance	Fc	1.70	5.4	0.4	4.25	13.50	10ft Grid
Site	Illuminance	Fc	0.23	6.6	0.0	N.A.	N.A.	10ft Grid
Walkway	Illuminance	Fc	2.08	5.8	0.4	5.20	14.50	5ft Grid

GENERAL DISCLAIMER:
Calculations have been performed according to IES standards and good practice Some differences between measured values and calculated results may occur due to tolerances in calculation methods, testing procedures, component performance, measurement techniques and field conditions such as voltage and temperature variations. Input data used to generate the attached calculations such as room dimensions, reflectances, furniture and architectural elements significantly affect the lighting performance. If these environmental conditions do not match the input data, differences will occur between measured values and calculated values.

* LLF Determined Using Current Published Lamp Data

NOTE TO REVIEWER:
Total Light Loss Factor (LLF) applied at time of design is determined by applying the Lamp Lumen Depreciation (LLD) from current lamp manufacturer's catalog, a Luminaire Dirt Depreciation Factor (LDD) based on IES recommended values and a Ballast Factor (BF) from current ballast specification sheets. Application of an incorrect Light Loss Factor (LLF) will result in forecasts of performance that will not accurately depict actual results.

For proper comparison of photometric layouts, it is essential that you insist all designers use correct Light Loss Factors.

APEX
LIGHTING SOLUTIONS
20-30 BEAVER ROAD, WETHERSFIELD, CT 06109
TELEPHONE 860.632.8766 / WWW.APEXLTG.COM

PROJECT TITLE:
AMS WILTON
131 DANBURY RD
WILTON, CT

DRAWING TITLE:
SITE LIGHTING
PHOTOMETRIC CALCULATION

SCALE : 1"=20'-0"
DATE: 11/2/23
DRAWN BY: LED/PD
SHEET:
SL-1B

FILE NAME: 2023-11-02 SL-1B AMS WILTON - 131 DANBURY RD - WILTON, CT.DWG

GARDCO by signify

Site & Area

PureForm

PBL LED bollard

AMS WILTON
131 DANBURY ROAD
WILTON, CT
B3

Gardco PureForm LED bollard PBL integrates a sleek, low profile design, extraordinary light output, and energy savings into an innovative pedestrian scale luminaire. PureForm bollard features a high performance optical system designed to achieve wide spacings and full cutoff performance. Three heights available for a customized look. IP66 optics ensure dust or moisture will never interfere with performance.

Project:
Location:
Cat.No:
Type:
Lamps: Qty:
Notes:

Ordering guide

example: PBL-42-14L-450-NW-G2-5-UNV

Prefix	Shaft Height	Number of LEDs	Drive Current	LED Color – Generation	Distribution	Emergency	Voltage
PBL	42	14L	100	WW-G2	3		UNV
PBL PureForm bollard	**36** Standard Shaft 36" **42** Standard Shaft 42" **60** Standard Shaft 60"	**14L** 14 LEDs (full ring)	**100** 100mA **200** 200mA **350** 350mA **450** 450mA **600** 600mA **800** 800mA **1050** 1050mA	**WW-G2** Warm White 3000K, 70CRI Generation 2 **NW-G2** Neutral White 4000K, 70CRI Generation 2 **CW-G2** Cool White 5000K, 70CRI Generation 2	**Type 3** **3** Type 3 **Type 5** **5** Type 5	Leave blank for no battery **EBP** Emergency battery [2,7,10]	**120** 120V **208** 208V **240** 240V **277** 277V **347** 347V **480** 480V **UNV** 120–277V (50/60Hz)

Options

Dimming controls	Motion sensing	Photo-sensing	Electrical	Finish
				FINISH
DD 0–10V External dimming (by others) [3,4] **FAWS** Field Adjustable [3,4] **LLC** Wireless controls without PIR sensor [3,4,5] **BL** Bi-level functionary with motion sensor [3,11] **DynaDimmer:** Automatic Profile Dimming [3,4] **CS50** Security 50% Dimming, 7 hours **CM50** Median 50% Dimming, 8 hours **CS30** Security 30% Dimming, 7 hours **CM30** Median 30% Dimming, 8 hours	**IMRI** Integral infrared [6,11]	**PCB** Photocontrol Button [8,10,12]	**Fusing** **F1** Single (120, 277, 347VAC) [8] **F2** Double (208, 240, 480VAC) [8] **F3** Canadian Double Pull (208, 240, 480VAC) [8] **Surge Protection** (10kA standard) **SP2** Increased 20kA **GFCI** Ground Fault Interrupt Outlet [9]	**Textured** **BK** Black **WH** White **BZ** Bronze **DGY** Dark Gray **MGY** Medium Gray **Customer specified** **RAL** Specify optional color or RAL (ex: RAL7024) **CC** Custom color (Must supply color chip for required factory quote)

1. Extended lead times apply. Contact factory for details.
2. Not available in 100, 200 or 350mA.
3. Not available with other control options.
4. Not available with motion sensor.
5. Not available with photocontrol.
6. Available only with BL dimming control.
7. Not available with LLC and CS/CM.
8. Must specify input voltage.
9. Available in 120V only.
10. Not available in 347 or 480V.
11. Not available in 100, 200, and 1050mA.
12. Not available with LLC.

3000K only

LED Wattage and Lumen Values

Ordering Code	LED Qty	LED Current (mA)	Color Temp.	Average System Watts	Type 3			Type 5		
					Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
PBL-14L-100-NW-G2-xx	14	100	4000	6.1	492	B0-U0-G0	81	538	B1-U0-G0	88
PBL-14L-200-NW-G2-xx	14	200	4000	10.6	965	B0-U0-G0	91	1055	B1-U0-G0	100
PBL-14L-350-NW-G2-xx	14	350	4000	17.7	1608	B0-U0-G0	91	1758	B1-U0-G0	99
PBL-14L-450-NW-G2-xx	14	450	4000	23.1	2007	B0-U0-G1	87	2195	B2-U0-G1	95
PBL-14L-600-NW-G2-xx	14	600	4000	30.3	2551	B1-U0-G1	84	2789	B2-U0-G1	92
PBL-14L-800-NW-G2-xx	14	800	4000	40.5	3198	B1-U0-G1	79	3497	B2-U0-G1	86
PBL-14L-1050-NW-G2-xx	14	1050	4000	53.8	3853	B1-U0-G1	72	4213	B3-U0-G1	78

Values from photometric tests performed in accordance with IESNA LM-79 and are representative of the configurations shown. Actual performance may vary due to installation and environmental variables, LED and driver tolerances, and field measurement considerations. It is highly recommended to confirm performance with a photometric layout.

NOTE: Some data may be scaled based on tests of similar (but not identical) luminaires. Contact factory for configurations not shown.

LED Wattage and Lumen Values (Emergency Mode)

Ordering Code	LED Qty	LED Current (mA)	Color Temp.	Avg. System Watts		Lumen Outputs			
						Type 3		Type 5	
				Normal Mode	Emergency Mode	Normal Mode	Emergency Mode	Normal Mode	Emergency Mode
PBL-14L-450-NW-G2-xx-EBP	14	450	4000	23.1	10.4	2007	1211	2195	1324
PBL-14L-600-NW-G2-xx-EBP	14	600	4000	30.3	10.4	2551	1211	2789	1324
PBL-14L-800-NW-G2-xx-EBP	14	800	4000	40.5	10.4	3198	1211	3497	1324
PBL-14L-1050-NW-G2-xx-EBP	14	1050	4000	53.8	10.4	3853	1211	4213	1324

For emergency EBP option, publish values are based on initial lumens.

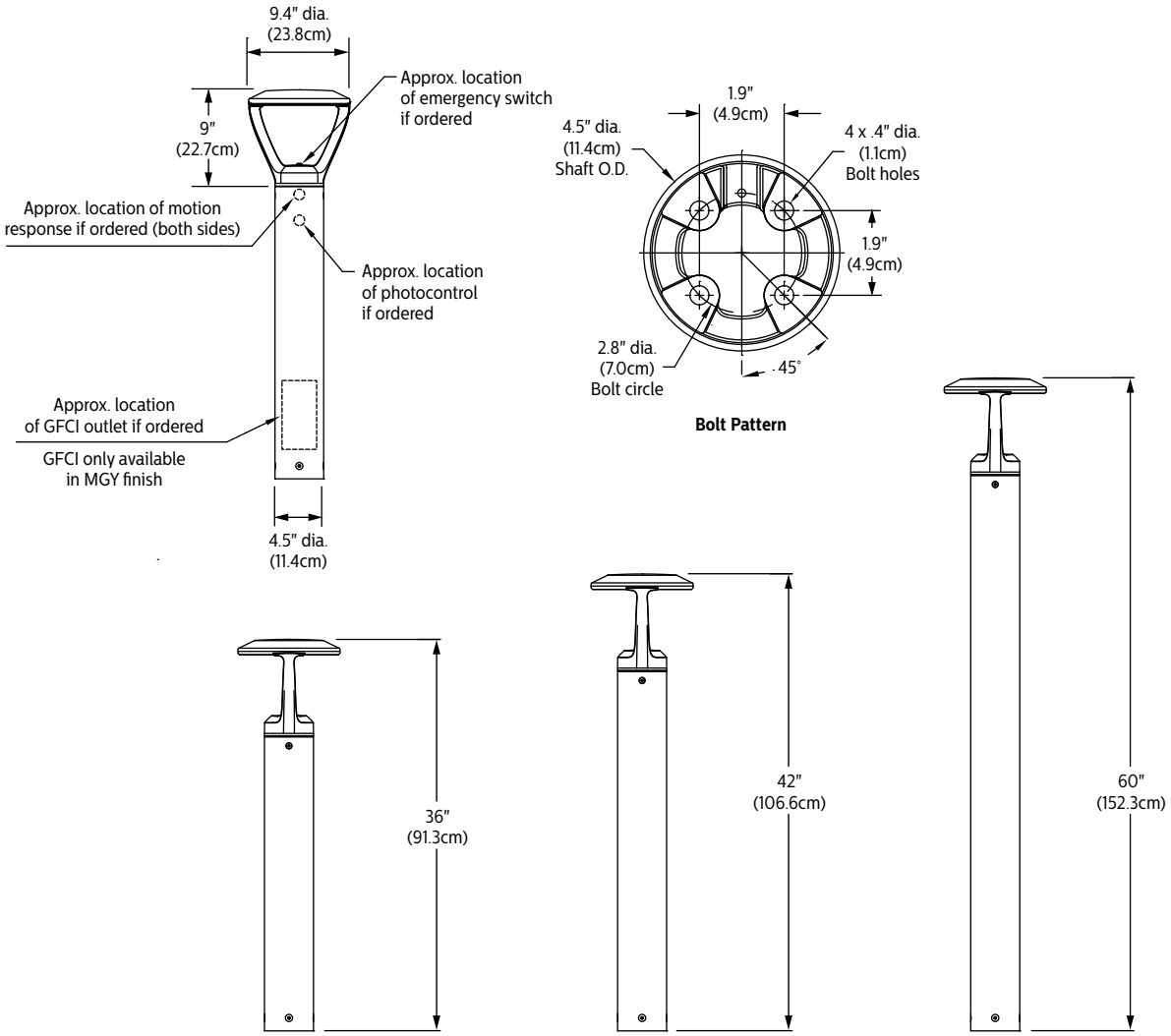
Predicted Lumen Depreciation Data

Predicted performance derived from LED manufacturer's data and engineering design estimates, based on IESNA LM-80 methodology. Actual experience may vary due to field application conditions.L_{70} is the predicted time when LED performance depreciates to 70% of initial lumen output. Calculated per IESNA TM21-11. Published L_{70} hours limited to 6 times actual LED test hours

Ambient Temperature °C	Driver mA	Calculated L_{70} Hours	L_{70} per TM-21	Lumen Maintenance % at 60,000 hrs
25°C	up to 1050mA	>100,000 hours	>60,000 hours	>95%

PBL PureForm LED bollard

Dimensions



PBL PureForm LED bollard

Specifications

Housing

Main body housing and yoke made of low copper cast aluminum alloy for a high resistance to corrosion. Luminaire shaft features a cylindrical extruded aluminum base housing. Bottom section has a casted ring for ease of assembly. It attaches to base assembly with four (4) hex head set screws. Most electrical components are integrated in the shaft of the bollard by design. This allows for the sleek profile, giving the freedom to have a clean minimalist aesthetic design with minimum obstruction to optical performance. Luminaire housing rated to IP65, tested in accordance to Section 9 of IEC 60598-1.

Light engine

Light engine comprises of a 14-LED module made out of aluminum metal clad board fully sealed with optics. Module is RoHS compliant. Color temperatures: 3000K +/- 125K, 4000K, 5000K +/- 200K. Minimum CRI of 70. LED light engine is rated IP66 in accordance to IEC 60598.

Energy saving benefits

System efficacy up to 100 lms/W with significant energy savings over Pulse Start Metal Halide luminaires. Optional control options provide added energy savings during unoccupied periods.

Optical systems

Type 3 and 5 distributions available. Performance tested per LM-79 and TM-15 certifying its photometric performance. Luminaire designed with 0% uplight (U0 per IESNA TM-15).

Mounting

Base assembly consists of a cast aluminum platform. Assembly is secured and leveled to the mounting foundation with four (4) 3/8" X 8" x 1 1/2" (.953 cm x 20.32 cm x 3.81 cm)-16 anchor bolts on a 2 3/4" (6.9 cm) bolt circle.

Control options

0-10V dimming (DD): Access to 0-10V dimming leads supplied through base of luminaire (for secondary dimming controls by others). Cannot be used with other control options.

Field Adjustable Wattage Selector (FAWS): Luminaire equipped with the ability to manually adjust the wattage in the field to reduce total luminaire lumen output and light levels. Comes pre-set to the highest position at the lumen output selected. Use chart below to estimate reduction in lumen output desired. Cannot be used with other control options or motion response.

FAWS Position	Percent of Typical Lumen Output
1	25%
2	50%
3	55%
4	65%
5	75%
6	80%
7	85%
8	90%
9	95%
10	100%

Note: Typical value accuracy +/- 5%

Automatic Profile Dimming (CS/CM): Standard dimming profiles provide flexibility towards energy savings goals while optimizing light levels during specific dark hours. Dimming profiles include two dimming settings including dim to 30% or 50% of the total lumen output. When used in combination with not programmed motion response it overrides the controller's schedule when motion is detected. After 5 minutes with no motion, it will return to the automatic dimming profile schedule.

Automatic dimming profile scheduled with the following settings:

- CS50/CS30: Security for 7 hours night duration (Ex., 11 PM - 6 AM)
- CM50/CM30: Median for 8 hours night duration (Ex., 10 PM - 6 AM)

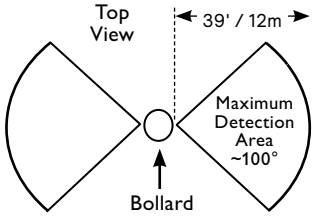
All above profiles are calculated from mid point of the night. Dimming is set for 6 hours after the mid point and 2, or 3 hours before depending of the duration of dimming. Cannot be used with other dimming control options.

Wireless system (LLC): Optional wireless controller integral to luminaire ready to be connected to a Limelight system (sold by others). The system allows you to wirelessly manage the entire site, independent lighting groups or individual luminaires while on-site or remotely. Based on a high-density mesh network with an easy to use web-based portal, you can conveniently access, monitor and manage your lighting network remotely. Wireless controls can be combined with site and area, pedestrian, and parking garage luminaires as well, for a completely connected outdoor solution. Motion response capability can be installed in other luminaires in the mesh or on a remote pod accessory where pod is mounted to pole or wall.

Emergency Battery Pack (EBP): Emergency battery packs included integral to the luminaire, allowing for no field installation of remote emergency equipment. EBP is suitable for use in ambient temperature conditions from 0°C (-32°F) to 40°C (100°F) available on 450mA and up. The system is designed to have a secondary driver with relay to immediately detect AC power loss to power luminaire for a minimum of 90 minutes from the time power is lost. Available with 120-277V, or 'UNV' only.

Motion response options

Infrared Motion Response Integral (BL-IMRI): Motion Response module is mounted integral to luminaire factory pre-programmed to 20% dimming when not ordered with other control options. BL-IMRI is set/operates in the following fashion: When motion is not detected for a 5 -minute period, luminaires automatically dim to 20% power and light, gradually over a 2 -minute period. Once Motion is detected, luminaires immediately ramp to full power and light output until motion is not detected for a 5-minute period.



Electrical

Driver: Driver efficiency (>90% standard). 120-277V available. Bollards with 347V or 480V input require and include a step-down transformer (placed within the bollard shaft) to provide proper input voltage to the LED power supply. Open/short circuit protection. Optional 0-10V dimming to 10% power. RoHS compliant.

Surge protection: Each luminaire is provided as standard with surge protector tested in accordance with ANSI/IEEE C62.45 per ANSI/IEEE C62.41.2 Scenario I Category C High Exposure 10kV/5kA waveforms for Line Ground, Line Neutral and Neutral Ground, and in accordance with U.S. DOE (Department of Energy) MSSLC (Municipal Solid-State Street Lighting Consortium) Model Specification for LED Roadway Luminaires Appendix D Electrical Immunity High Test Level 10kV / 5kA. Optional 20kV is available for additional protection.

Ground Fault Interrupt Outlet (GFCI): Optional Class A Rated White 15-Amp GFCI (Ground Fault Circuit Interrupter) Duplex Outlet provides electrical shock protection and prevents the risk of electrical fire caused by ground fault current. GFCI only available in MGY finish.

Specifications (cont'd)

Listings

UL 1598 standard, suitable for Wet Locations. Suitable for use in ambients from -40° to 40°C (-40° to 104°F). The quality systems of this facility have been registered by UL to the ISO 9001 series standards. Most PureForm PBL configurations are DesignLights Consortium® qualified. Consult DLC Qualified Products list for more details. CCTs 3000K and warmer are Dark Sky Approved.

Finish

Each standard color luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) textured polyester powdercoat finish. The surface treatment achieves a minimum of 1000 hours for salt spray resistant finish in accordance with testing performed and per ASTM B117 standard. Standard colors include bronze (BZ), black (BK), white (WH), dark gray (DGY), and medium gray (MGY). Consult factory for specs on optional or custom colors.

Warranty

PureForm luminaires feature a 5-year limited warranty.
See signify.com/warranties for complete details and exclusions.

Buy American Act of 1933 (BAA):

This product is manufactured in one of our US factories and, as of the date of this document, this product was considered a commercially available off-the-shelf (COTS) item meeting the requirements of the BAA. This BAA designation hereunder does not address (i) the applicability of, or availability of a waiver under, the Trade Agreements Act, or (ii) the "Buy America" domestic content requirements imposed on states, localities, and other non-federal entities as a condition of receiving funds administered by the Department of Transportation or other federal agencies. Prior to ordering, please visit www.signify.com/baa to view a current list of BAA-compliant products to confirm this product's current compliance.

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GARDCO by signify

Site & Area

PureForm

PBL LED bollard

AMS WILTON
131 DANBURY ROAD
WILTON, CT
B5

Gardco PureForm LED bollard PBL integrates a sleek, low profile design, extraordinary light output, and energy savings into an innovative pedestrian scale luminaire. PureForm bollard features a high performance optical system designed to achieve wide spacings and full cutoff performance. Three heights available for a customized look. IP66 optics ensure dust or moisture will never interfere with performance.

Project:
Location:
Cat.No:
Type:
Lamps: Qty:
Notes:

Ordering guide

example: PBL-42-14L-450-NW-G2-5-UNV

Prefix	Shaft Height	Number of LEDs	Drive Current	LED Color – Generation	Distribution	Emergency	Voltage
PBL	42	14L	100	WW-G2	5		UNV
PBL PureForm bollard	**36** Standard Shaft 36" **42** Standard Shaft 42" **60** Standard Shaft 60"	**14L** 14 LEDs (full ring)	**100** 100mA **200** 200mA **350** 350mA **450** 450mA **600** 600mA **800** 800mA **1050** 1050mA	**WW-G2** Warm White 3000K, 70CRI Generation 2 **NW-G2** Neutral White 4000K, 70CRI Generation 2 **CW-G2** Cool White 5000K, 70CRI Generation 2	**Type 3** **3** Type 3 **Type 5** **5** Type 5	Leave blank for no battery **EBP** Emergency battery [2,7,10]	**120** 120V **208** 208V **240** 240V **277** 277V **347** 347V **480** 480V **UNV** 120–277V (50/60Hz)

Options

Dimming controls	Motion sensing	Photo-sensing	Electrical	Finish
				FINISH
DD 0–10V External dimming (by others) [3,4] **FAWS** Field Adjustable [3,4] **LLC** Wireless controls without PIR sensor [3,4,5] **BL** Bi-level functionary with motion sensor [3,11] **DynaDimmer:** Automatic Profile Dimming [3,4] **CS50** Security 50% Dimming, 7 hours **CM50** Median 50% Dimming, 8 hours **CS30** Security 30% Dimming, 7 hours **CM30** Median 30% Dimming, 8 hours	**IMRI** Integral infrared [6,11]	**PCB** Photocontrol Button [8,10,12]	**Fusing** **F1** Single (120, 277, 347VAC) [8] **F2** Double (208, 240, 480VAC) [8] **F3** Canadian Double Pull (208, 240, 480VAC) [8] **Surge Protection** (10kA standard) **SP2** Increased 20kA **GFCI** Ground Fault Interrupt Outlet [9]	**Textured** **BK** Black **WH** White **BZ** Bronze **DGY** Dark Gray **MGY** Medium Gray **Customer specified** **RAL** Specify optional color or RAL (ex: RAL7024) **CC** Custom color (Must supply color chip for required factory quote)

1. Extended lead times apply. Contact factory for details.
2. Not available in 100, 200 or 350mA.
3. Not available with other control options.
4. Not available with motion sensor.
5. Not available with photocontrol.
6. Available only with BL dimming control.
7. Not available with LLC and CS/CM.
8. Must specify input voltage.
9. Available in 120V only.
10. Not available in 347 or 480V.
11. Not available in 100, 200, and 1050mA.
12. Not available with LLC.

3000K only

LED Wattage and Lumen Values

Ordering Code	LED Qty	LED Current (mA)	Color Temp.	Average System Watts	Type 3			Type 5		
					Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
PBL-14L-100-NW-G2-xx	14	100	4000	6.1	492	B0-U0-G0	81	538	B1-U0-G0	88
PBL-14L-200-NW-G2-xx	14	200	4000	10.6	965	B0-U0-G0	91	1055	B1-U0-G0	100
PBL-14L-350-NW-G2-xx	14	350	4000	17.7	1608	B0-U0-G0	91	1758	B1-U0-G0	99
PBL-14L-450-NW-G2-xx	14	450	4000	23.1	2007	B0-U0-G1	87	2195	B2-U0-G1	95
PBL-14L-600-NW-G2-xx	14	600	4000	30.3	2551	B1-U0-G1	84	2789	B2-U0-G1	92
PBL-14L-800-NW-G2-xx	14	800	4000	40.5	3198	B1-U0-G1	79	3497	B2-U0-G1	86
PBL-14L-1050-NW-G2-xx	14	1050	4000	53.8	3853	B1-U0-G1	72	4213	B3-U0-G1	78

Values from photometric tests performed in accordance with IESNA LM-79 and are representative of the configurations shown. Actual performance may vary due to installation and environmental variables, LED and driver tolerances, and field measurement considerations. It is highly recommended to confirm performance with a photometric layout.

NOTE: Some data may be scaled based on tests of similar (but not identical) luminaires. Contact factory for configurations not shown.

LED Wattage and Lumen Values (Emergency Mode)

Ordering Code	LED Qty	LED Current (mA)	Color Temp.	Avg. System Watts		Lumen Outputs			
						Type 3		Type 5	
				Normal Mode	Emergency Mode	Normal Mode	Emergency Mode	Normal Mode	Emergency Mode
PBL-14L-450-NW-G2-xx-EBP	14	450	4000	23.1	10.4	2007	1211	2195	1324
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PBL-14L-1050-NW-G2-xx-EBP	14	1050	4000	53.8	10.4	3853	1211	4213	1324

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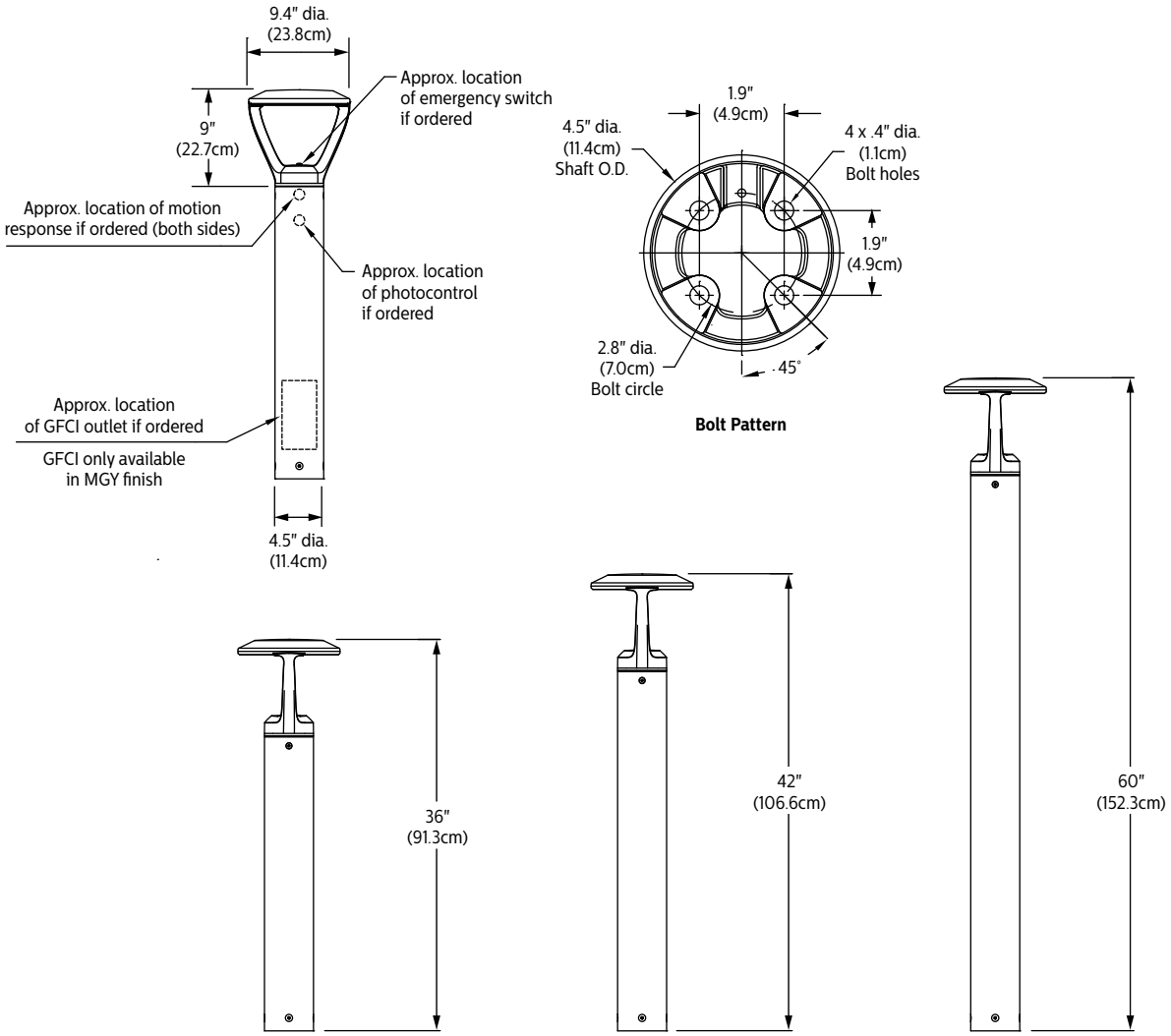
Predicted Lumen Depreciation Data

Predicted performance derived from LED manufacturer's data and engineering design estimates, based on IESNA LM-80 methodology. Actual experience may vary due to field application conditions.L_{70} is the predicted time when LED performance depreciates to 70% of initial lumen output. Calculated per IESNA TM21-11. Published L_{70} hours limited to 6 times actual LED test hours

Ambient Temperature °C	Driver mA	Calculated L_{70} Hours	L_{70} per TM-21	Lumen Maintenance % at 60,000 hrs
25°C	up to 1050mA	>100,000 hours	>60,000 hours	>95%

PBL PureForm LED bollard

Dimensions



PBL PureForm LED bollard

Specifications

Housing

Main body housing and yoke made of low copper cast aluminum alloy for a high resistance to corrosion. Luminaire shaft features a cylindrical extruded aluminum base housing. Bottom section has a casted ring for ease of assembly. It attaches to base assembly with four (4) hex head set screws. Most electrical components are integrated in the shaft of the bollard by design. This allows for the sleek profile, giving the freedom to have a clean minimalist aesthetic design with minimum obstruction to optical performance. Luminaire housing rated to IP65, tested in accordance to Section 9 of IEC 60598-1.

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Light engine comprises of a 14-LED module made out of aluminum metal clad board fully sealed with optics. Module is RoHS compliant. Color temperatures: 3000K +/- 125K, 4000K, 5000K +/- 200K. Minimum CRI of 70. LED light engine is rated IP66 in accordance to IEC 60598.

Energy saving benefits

System efficacy up to 100 lms/W with significant energy savings over Pulse Start Metal Halide luminaires. Optional control options provide added energy savings during unoccupied periods.

Optical systems

Type 3 and 5 distributions available. Performance tested per LM-79 and TM-15 certifying its photometric performance. Luminaire designed with 0% uplight (U0 per IESNA TM-15).

Mounting

Base assembly consists of a cast aluminum platform. Assembly is secured and leveled to the mounting foundation with four (4) 3/8" X 8" x 1 1/2" (.953 cm x 20.32 cm x 3.81 cm)-16 anchor bolts on a 2 3/4" (6.9 cm) bolt circle.

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FAWS Position	Percent of Typical Lumen Output
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3	55%
4	65%
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8	90%
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Note: Typical value accuracy +/- 5%

Automatic Profile Dimming (CS/CM): Standard dimming profiles provide flexibility towards energy savings goals while optimizing light levels during specific dark hours. Dimming profiles include two dimming settings including dim to 30% or 50% of the total lumen output. When used in combination with not programmed motion response it overrides the controller's schedule when motion is detected. After 5 minutes with no motion, it will return to the automatic dimming profile schedule.

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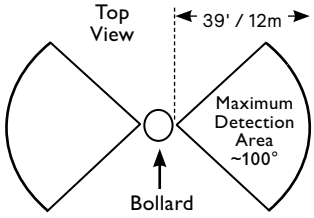

Electrical

Driver: Driver efficiency (>90% standard). 120-277V available. Bollards with 347V or 480V input require and include a step-down transformer (placed within the bollard shaft) to provide proper input voltage to the LED power supply. Open/short circuit protection. Optional 0-10V dimming to 10% power. RoHS compliant.

Surge protection: Each luminaire is provided as standard with surge protector tested in accordance with ANSI/IEEE C62.45 per ANSI/IEEE C62.41.2 Scenario I Category C High Exposure 10kV/5kA waveforms for Line Ground, Line Neutral and Neutral Ground, and in accordance with U.S. DOE (Department of Energy) MSSLC (Municipal Solid-State Street Lighting Consortium) Model Specification for LED Roadway Luminaires Appendix D Electrical Immunity High Test Level 10kV / 5kA. Optional 20kV is available for additional protection.

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Specifications (cont'd)

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Buy American Act of 1933 (BAA):

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AMS WILTON
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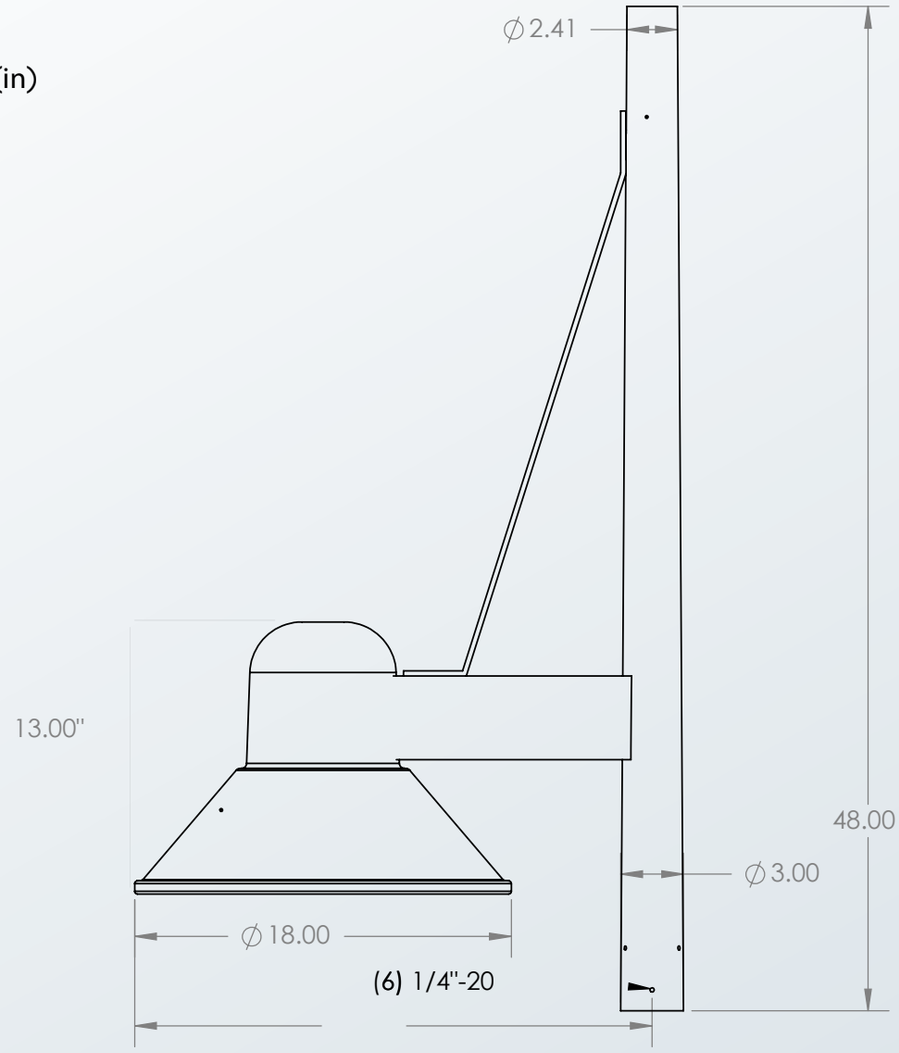
SA3

HERITAGE

All information is subject to change without notice. Last Updated: 04/14/2021

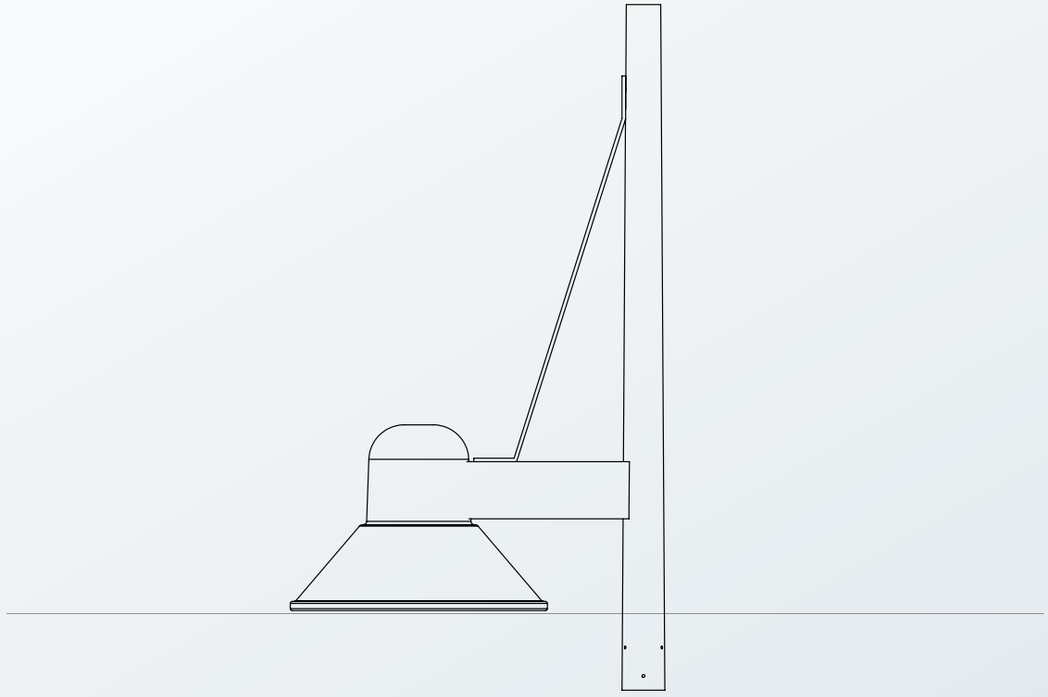
Dimensions (in)



HERITAGE

Weight (lbs)	
Side Mounted with Arm	20
Suspended	13
EPA (ft^2)	2.44
Tenon	Fits 3" Pole

HERITAGE



Powers & Luminous Intensities

3000K	350 mA			500 mA			700 mA		
Number of LEDs	P_t (W)	Φ (lm)	(lm/W)	P_t (W)	Φ (lm)	(lm/W)	P_t (W)	Φ (lm)	(lm/W)
16	21.4	1988	93	28.2	2867	102	36	3636	101
32	34.4	3976	116	48.8	5734	118	68.9	7271	106
48	51	5964	117	72.6	8601	118	102.3	10907	107

4000K	350 mA			500 mA			700 mA		
Number of LEDs	P_t (W)	Φ (lm)	(lm/W)	P_t (W)	Φ (lm)	(lm/W)	P_t (W)	Φ (lm)	(lm/W)
16	21.4	2147	100	28.2	3097	110	36	3932	109
32	34.4	4294	125	48.8	6193	127	68.9	7863	114
48	51	6441	126	72.6	9290	128	102.3	11795	115

Pt (W)= Total power consumption including driver consumption
Φ Nominal flux (lm)

Ordering Information

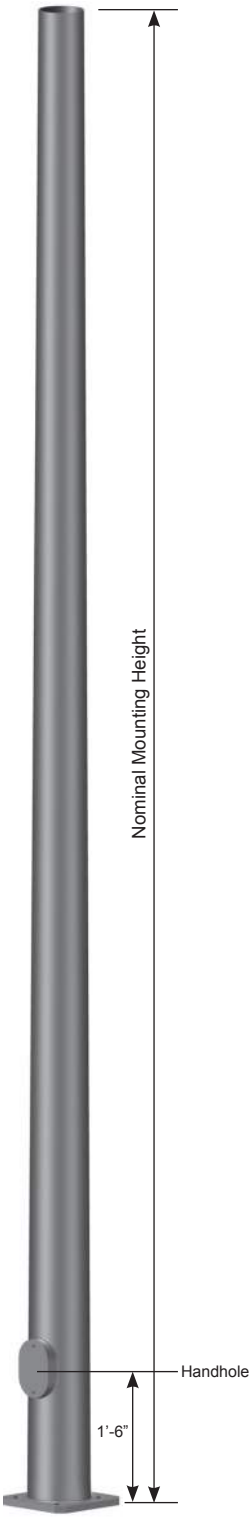
Fixture	# LED	CCT (K)	Drive Current	Distribution	Line Voltage	Mounting	Color
HER	48	3	50	T3	VOLT	LT	BLK
	16	3 – (3000)	35 – (350)	T2	1 - (120-277)	SUS - (Suspended)	BLK – (Black)
	32	4 – (4000)	50 – (500)	T3	3 - (347-480)	LT- (Lateral)	BRZ – (Bronze)
	48		70 – (700)	T4			SLV – (Silver)
			C - (Custom)	T5			WHT – (White)
							(RAL #)

All information is subject to change without notice. Last Updated: 01/13/2021

valmont STRUCTURES

ROUND TAPERED STEEL DS210
Light Duty

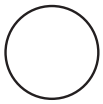
Job Name:	Client Name:
Job Location - City: State:	Created By: Date:
Product: DS210 ---- Quote:	Customer Approval: Date:



Tenon Top

Pole Cap

Cross Section



Handhole

Full Base Cover (Standard Square)

Dart Square-2T (Optional)

Dart Round - DT (Optional)

SPECIFICATIONS

Pole Shaft - The pole shaft is a 1-piece assembly conforming to ASTM A595 Grade A or A572 Grade 55 with a constant linear taper of 0.14 in/ft.

Pole Top - Pole is provided with either a tenon top or drilled for a fixture mounting. A removable pole cap is provided for drilled poles. Consult the luminaire manufacturer for correct tenon size or drill pattern. Other pole top options include pole cap only (PC) or plain top (PL) which is typical when the pole top diameter matches the necessary slip fit dimensions.

Handhole - A reinforced handhole with grounding provision is provided at 1'-6" from the base end of the pole assembly. Each handhole includes a cover and the cover attachment hardware. Poles with a 5.90" base diameter are supplied with a 3" X 5" rectangular handhole. All other pole assemblies are provided with a 4" X 6.5" ovalized handhole. Handhole dimensions are nominal.

Base Cover - A two-piece full base cover fabricated from ABS plastic is provided with each pole assembly. Valmont reserves the right to provide a two-piece steel full base cover on some applications depending upon the finish requirement and/or pole base diameter. Nut covers can be substituted on most models. Additional base cover options, including the Dart Square (2T) cast aluminum cover and Dart Round (DT) cast aluminum cover, are available upon request.

Anchor Bolts - Anchor bolts conform to ASTM F1554 Grade 55 and are provided with two hex nuts and two flat washers. Bolts have an "L" bend on one end and are galvanized a minimum of 12" on the threaded end.

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

Finish - Standard finishes are either Galvanized (GV) or Finish Painted (FP). Additional finish options including Finish Paint over Galvanizing (FPGV) or any of the V-PRO™ Finish Coating Systems are available upon request. See the product ordering code for color options.

Design Criteria - Please reference Design Criteria Specification for appropriate design conditions.

ROUND TAPERED STEEL
DS210
Light Duty

valmont STRUCTURES

Job Name: _____ Client Name: _____

Job Location - City: _____ State: _____ Created By: _____ Date: _____

Product: DS210 ---- Quote: _____ Customer Approval: _____ Date: _____

DESIGNATION, LOAD AND DIMENSIONAL DATA

DESIGN INFORMATION							POLE DIMENSIONS				DESIGNATION
	80 MPH w/1.3 GUST		90 MPH w/1.3 GUST		100 MPH w/1.3 GUST						
NOMINAL MOUNTING HEIGHT	MAX EPA[1] (SQ FT)	MAX WEIGHT[1] (LBS)	MAX EPA[1] (SQ FT)	MAX WEIGHT[1] (LBS)	MAX EPA[1] (SQ FT)	MAX WEIGHT[1] (LBS)	BASE OD (IN)	TOP OD (IN)	WALL THK (GA)	STRUCTURE WEIGHT[2] (LBS)	
20'-0"	19.3	482	15.1	377	12.2	305	5.90	3.10	11	140	590A200
	24.2	605	19.3	482	15.6	390	6.50	3.70	11	160	650A200
25'-0"	12.5	312	9.9	247	8.0	200	5.90	2.40	11	155	590A250
	20.3	507	16.2	405	13.1	327	7.00	3.50	11	200	700A250
	30.5	760	24.0	625	19.8	495	7.00	3.50	7	280	700E250
30'-0"	11.7	292	9.3	232	7.5	187	6.60	2.40	11	200	660A300
	18.9	473	14.9	373	12.0	300	8.00	3.80	11	265	800A300
	33.5	838	27.0	675	22.0	550	8.00	3.80	7	380	800E300
35'-0"	11.2	280	8.9	222	7.1	177	7.30	2.40	11	250	730A350
	18.9	472	15.1	377	12.2	305	8.50	3.60	11	315	850A350
	23.2	580	18.2	455	14.5	363	9.50	4.60	11	370	950A350
39'-0"	10.7	267	8.5	212	6.6	165	7.82	2.40	11	285	782A389
	17.2	430	13.5	338	10.8	270	9.00	3.58	11	355	900A389
	28.5	715	23.0	575	19.0	475	9.00	3.58	7	515	900E389
45'-0"	17.4	435	13.5	338	10.6	265	10.00	3.70	11	450	T00A450
	28.5	715	23.0	575	19.0	475	10.00	3.70	7	650	T00E450
50'-0"	13.2	330	10.6	265	8.3	208	10.00	3.00	11	475	T00A500
	20.5	512	16.5	412	13.6	340	10.00	3.00	7	680	T00E500

DS210 Heavy Duty poles available at valmontstructures.com

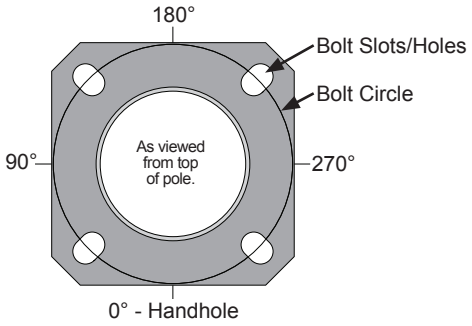
CUT TO 18' HEIGHT

1. Maximum EPA (Effective Projected Area) and weight values are based on top mounted luminaires and/or brackets having a centroid 2'-6" above the Nominal Mounting Height. Variations from sizes above are available upon inquiry at the factory. Satisfactory performance of poles is dependent upon the pole being properly attached to a supporting foundation of adequate design.
2. Structure weight is a nominal value which includes the pole shaft and base plate only.

ANCHORAGE DATA

POLE		BASE PLATE				ANCHOR BOLTS		
		BOLT CIRCLE						
BASE OD (IN)	WALL THK (GA)	DIA (IN)	± (IN)	SQUARE (IN)	THK (IN)	DIA x LENGTH x HOOK (IN)	PROJECTION (IN)	± (IN)
5.90	11	9.00	0.50	10.00	0.875	1.00 x 36.00 x 4.00	4.13	0.25
6.50	11	9.50	0.50	10.50	0.875	1.00 x 36.00 x 4.00	4.13	0.25
6.60	11	9.50	0.50	10.50	0.875	1.00 x 36.00 x 4.00	4.13	0.25
7.00	11	10.00	0.50	10.88	0.875	1.00 x 36.00 x 4.00	4.13	0.25
7.00	7	10.00	0.50	10.88	1.000	1.00 x 36.00 x 4.00	4.25	0.25
7.30	11	10.50	0.50	11.25	0.875	1.00 x 36.00 x 4.00	4.13	0.25
7.82	11	11.00	0.50	11.50	0.875	1.00 x 36.00 x 4.00	4.13	0.25
8.00	11	11.00	0.50	11.50	0.875	1.00 x 36.00 x 4.00	4.13	0.25
8.00	7	11.00	0.50	11.50	1.250	1.25 x 42.00 x 6.00	5.00	0.25
8.50	11	11.50	0.50	12.00	1.000	1.00 x 36.00 x 4.00	4.25	0.25
9.00	11	12.50	0.50	12.38	1.000	1.00 x 36.00 x 4.00	4.25	0.25
9.00	7	12.50	0.50	12.38	1.250	1.25 x 42.00 x 6.00	5.00	0.25
9.50	11	13.00	0.50	13.00	1.000	1.00 x 36.00 x 4.00	4.25	0.25
10.00	11	13.50	0.50	14.00	1.000	1.00 x 36.00 x 4.00	4.25	0.25
10.00	7	13.50	0.50	14.00	1.250	1.25 x 42.00 x 6.00	5.00	0.25

Anchor Base Detail



PRODUCT ORDERING CODE

MODEL	DESIGNATION	FIXTURE MOUNTING	FINISH SYSTEM	STANDARD COLOR OPTIONS	BASE COVER	ANCHOR BOLTS	SUPPLEMENTAL INFO
DS210	590A200	TBD	SUBLIMATION-WOOD EFFECT	--	-- DT	-- AB	

Select Correct Designation from the *Loads and Dimensional Data Chart.*

Drill Mounting (See Orientation)
D1 = (1) Drilling @ 270°
D2 = (2) Drillings @ 90° & 270°
D3 = (3) Drillings @ 60°, 180°, & 300°
D4 = (4) Drillings @ 0°, 90°, 180°, & 270°
D5 = (2) Drillings @ 180° & 270°
D6 = (3) Drillings @ 90°, 180°, & 270°

Tenon Mounting
P2 = 2.38" OD x 4" tenon
P4 = 4.00" OD x 6" tenon
P5 = 2.88" OD x 4" tenon
P6 = 2.88" OD x 5" tenon
P7 = 2.38" OD x 5" tenon
P9 = Special Size (Specify)

Other Options
PC = Pole Cap
PL = Plain Top (No Cap)

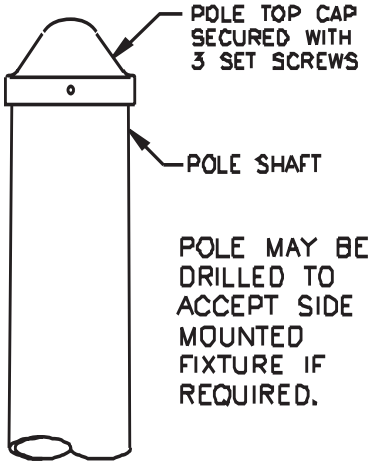
GV = Galvanized
FP = Finish Painted
-----OPTIONAL-----
FPGV = Finish Paint over Galvanizing
VP30 = V-PRO™ 30 System
VP32 = V-PRO™ 32 System
VP53 = V-PRO™ 53 System
VP54 = V-PRO™ 54 System
VP57 = V-PRO™ 57 System
VP100 = V-PRO™ 100 System
VP105 = V-PRO™ 105 System

GV = Galvanized
BK = Black
DB = Dark Bronze
MB = Medium Bronze
WH = White
LG = Light Gray
CB = Bronze
DG = Dark Green
ST = Sandstone
HG = Hunter Green
SG = Slate Gray
SL = Silver
SC = Special Color (Specify)

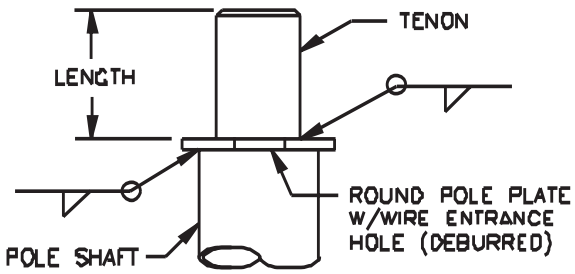
FBC = Full Base Cover
-----OPTIONAL-----
NC = Nut Covers
2T = Square Dart Cover
DT = Dart Round Cover

AB = With Anchor Bolts
LAB = Without Anchor Bolts

20' POLE CUT TO 18'

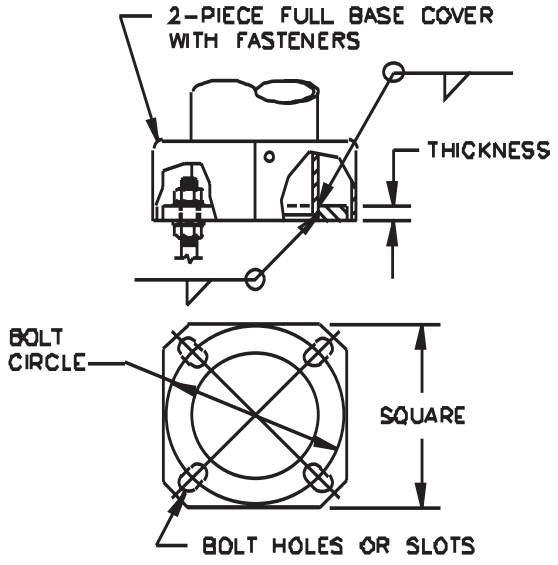


CAP DETAIL (OPTIONAL)

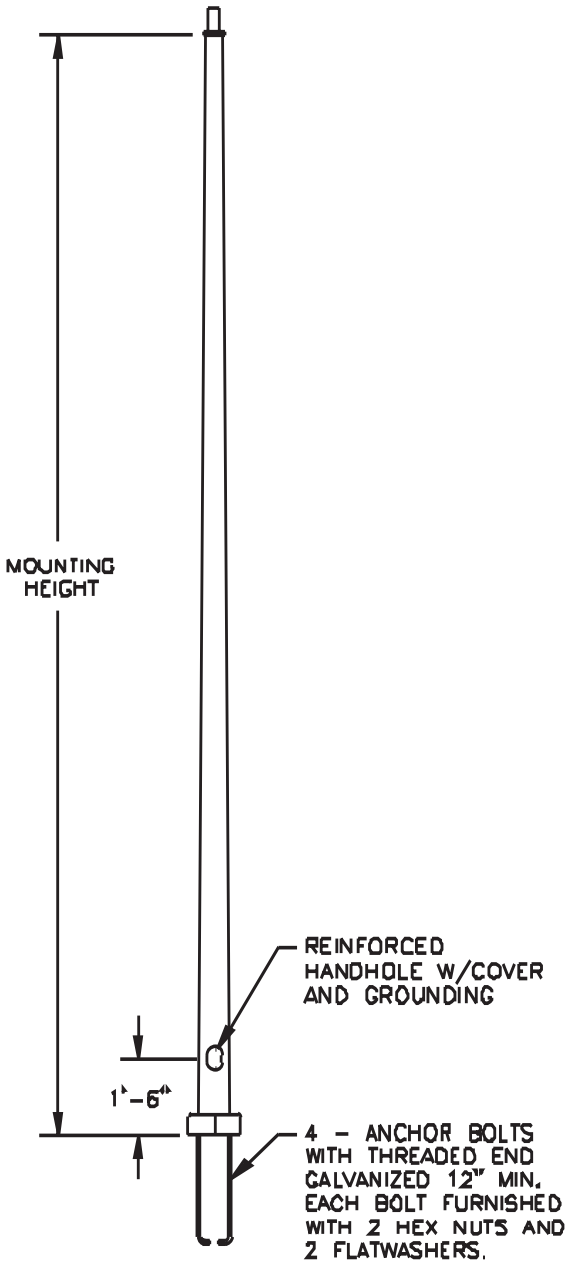


DESIGN NUMBER	O.D. (in)	PIPE SIZE	LENGTH (in)
P2	2.375	2.0" SCHED 80	4
P4	4.000	3.5" SCHED 40	6
PL	2.400	POLE TOP	N.A.

TENON DETAIL (STANDARD)



POLE BASE DETAIL



DS210 POLE DETAIL

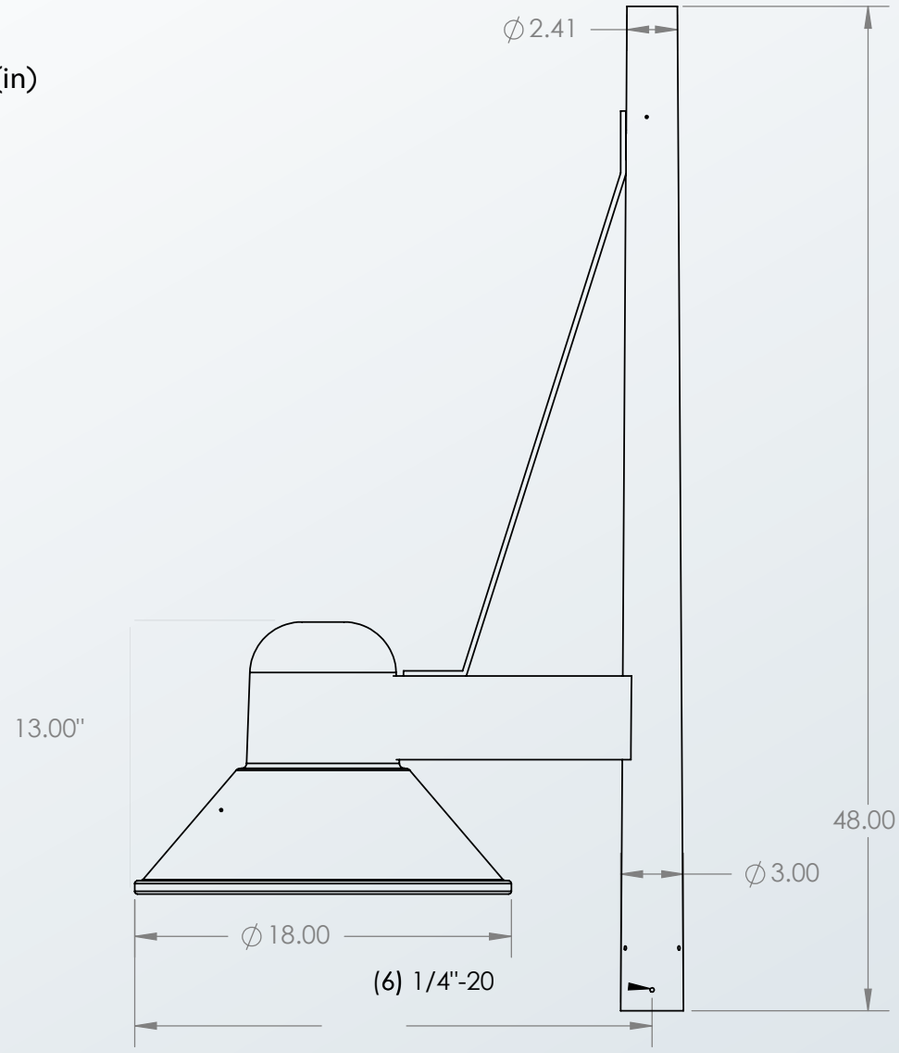
SPC7204 02/17 valmontstructures.com carries the most current spec information and supersedes these guidelines.

AMS WILTON
131 DANBURY ROAD
WILTON, CT
SA3H

HERITAGE

All information is subject to change without notice. Last Updated: 04/14/2021

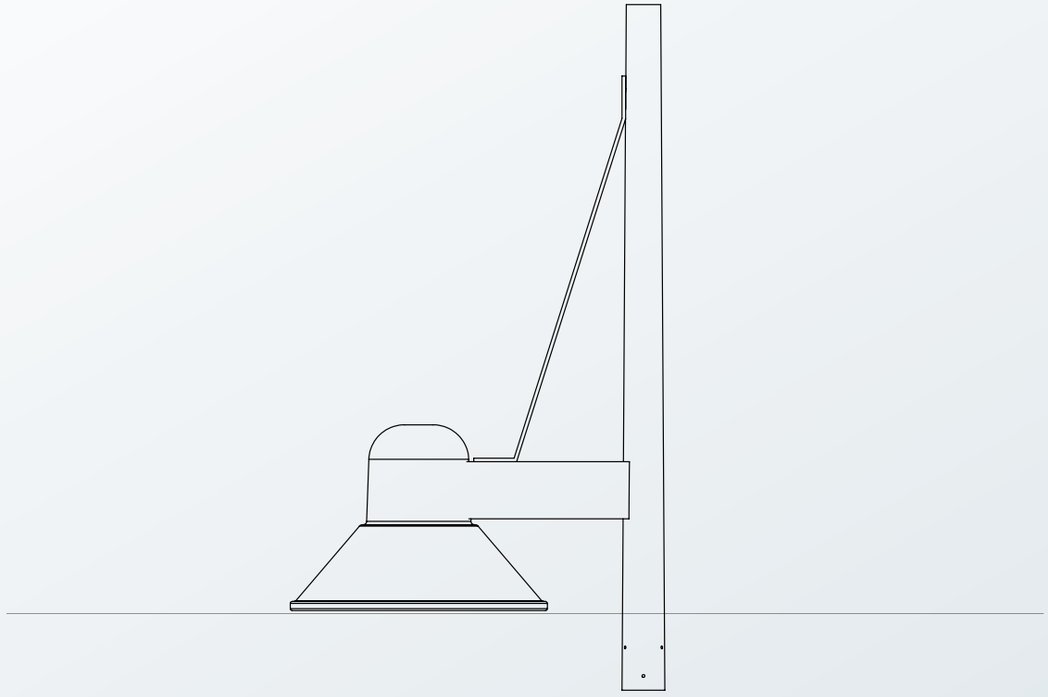
Dimensions (in)



HERITAGE

Weight (lbs)	
Side Mounted with Arm	20
Suspended	13
EPA (ft^2)	2.44
Tenon	Fits 3" Pole

HERITAGE



Powers & Luminous Intensities

3000K	350 mA			500 mA			700 mA		
Number of LEDs	P_t (W)	Φ (lm)	(lm/W)	P_t (W)	Φ (lm)	(lm/W)	P_t (W)	Φ (lm)	(lm/W)
16	21.4	1988	93	28.2	2867	102	36	3636	101
32	34.4	3976	116	48.8	5734	118	68.9	7271	106
48	51	5964	117	72.6	8601	118	102.3	10907	107

4000K	350 mA			500 mA			700 mA		
Number of LEDs	P_t (W)	Φ (lm)	(lm/W)	P_t (W)	Φ (lm)	(lm/W)	P_t (W)	Φ (lm)	(lm/W)
16	21.4	2147	100	28.2	3097	110	36	3932	109
32	34.4	4294	125	48.8	6193	127	68.9	7863	114
48	51	6441	126	72.6	9290	128	102.3	11795	115

Pt (W)= Total power consumption including driver consumption
Φ Nominal flux (lm)

Ordering Information

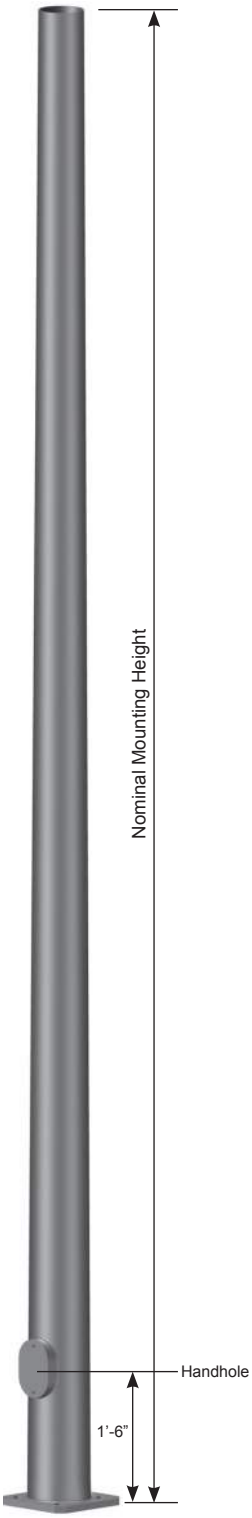
Fixture	# LED	CCT (K)	Drive Current	Distribution	Line Voltage	Mounting	Color	
HER	48	3	50	T3	VOLT	LT	BLK	HS
	16	3 – (3000)	35 – (350)	T2	1 - (120-277)	SUS - (Suspended)	BLK – (Black)	HS-HOUSE SIDE SHIELD
	32	4 – (4000)	50 – (500)	T3	3 - (347-480)	LT- (Lateral)	BRZ – (Bronze)	
	48		70 – (700)	T4			SLV – (Silver)	
			C - (Custom)	T5			WHT – (White)	
							(RAL #)	

All information is subject to change without notice. Last Updated: 01/13/2021

valmont STRUCTURES

ROUND TAPERED STEEL DS210
Light Duty

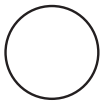
Job Name:	Client Name:
Job Location - City: State:	Created By: Date:
Product: DS210 ---- Quote:	Customer Approval: Date:



Tenon Top

Pole Cap

Cross Section



Handhole

Full Base Cover (Standard Square)

Dart Square-2T (Optional)

Dart Round - DT (Optional)

SPECIFICATIONS

Pole Shaft - The pole shaft is a 1-piece assembly conforming to ASTM A595 Grade A or A572 Grade 55 with a constant linear taper of 0.14 in/ft.

Pole Top - Pole is provided with either a tenon top or drilled for a fixture mounting. A removable pole cap is provided for drilled poles. Consult the luminaire manufacturer for correct tenon size or drill pattern. Other pole top options include pole cap only (PC) or plain top (PL) which is typical when the pole top diameter matches the necessary slip fit dimensions.

Handhole - A reinforced handhole with grounding provision is provided at 1'-6" from the base end of the pole assembly. Each handhole includes a cover and the cover attachment hardware. Poles with a 5.90" base diameter are supplied with a 3" X 5" rectangular handhole. All other pole assemblies are provided with a 4" X 6.5" ovalized handhole. Handhole dimensions are nominal.

Base Cover - A two-piece full base cover fabricated from ABS plastic is provided with each pole assembly. Valmont reserves the right to provide a two-piece steel full base cover on some applications depending upon the finish requirement and/or pole base diameter. Nut covers can be substituted on most models. Additional base cover options, including the Dart Square (2T) cast aluminum cover and Dart Round (DT) cast aluminum cover, are available upon request.

Anchor Bolts - Anchor bolts conform to ASTM F1554 Grade 55 and are provided with two hex nuts and two flat washers. Bolts have an "L" bend on one end and are galvanized a minimum of 12" on the threaded end.

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

Finish - Standard finishes are either Galvanized (GV) or Finish Painted (FP). Additional finish options including Finish Paint over Galvanizing (FPGV) or any of the V-PRO™ Finish Coating Systems are available upon request. See the product ordering code for color options.

Design Criteria - Please reference Design Criteria Specification for appropriate design conditions.

ROUND TAPERED STEEL
DS210
Light Duty

valmont STRUCTURES

Job Name: _____ Client Name: _____

Job Location - City: _____ State: _____ Created By: _____ Date: _____

Product: DS210 ---- Quote: _____ Customer Approval: _____ Date: _____

DESIGNATION, LOAD AND DIMENSIONAL DATA

DESIGN INFORMATION							POLE DIMENSIONS				DESIGNATION
	80 MPH w/1.3 GUST		90 MPH w/1.3 GUST		100 MPH w/1.3 GUST						
NOMINAL MOUNTING HEIGHT	MAX EPA[1] (SQ FT)	MAX WEIGHT[1] (LBS)	MAX EPA[1] (SQ FT)	MAX WEIGHT[1] (LBS)	MAX EPA[1] (SQ FT)	MAX WEIGHT[1] (LBS)	BASE OD (IN)	TOP OD (IN)	WALL THK (GA)	STRUCTURE WEIGHT[2] (LBS)	
20'-0"	19.3	482	15.1	377	12.2	305	5.90	3.10	11	140	590A200
	24.2	605	19.3	482	15.6	390	6.50	3.70	11	160	650A200
25'-0"	12.5	312	9.9	247	8.0	200	5.90	2.40	11	155	590A250
	20.3	507	16.2	405	13.1	327	7.00	3.50	11	200	700A250
	30.5	760	24.0	625	19.8	495	7.00	3.50	7	280	700E250
30'-0"	11.7	292	9.3	232	7.5	187	6.60	2.40	11	200	660A300
	18.9	473	14.9	373	12.0	300	8.00	3.80	11	265	800A300
	33.5	838	27.0	675	22.0	550	8.00	3.80	7	380	800E300
35'-0"	11.2	280	8.9	222	7.1	177	7.30	2.40	11	250	730A350
	18.9	472	15.1	377	12.2	305	8.50	3.60	11	315	850A350
	23.2	580	18.2	455	14.5	363	9.50	4.60	11	370	950A350
39'-0"	10.7	267	8.5	212	6.6	165	7.82	2.40	11	285	782A389
	17.2	430	13.5	338	10.8	270	9.00	3.58	11	355	900A389
	28.5	715	23.0	575	19.0	475	9.00	3.58	7	515	900E389
45'-0"	17.4	435	13.5	338	10.6	265	10.00	3.70	11	450	T00A450
	28.5	715	23.0	575	19.0	475	10.00	3.70	7	650	T00E450
50'-0"	13.2	330	10.6	265	8.3	208	10.00	3.00	11	475	T00A500
	20.5	512	16.5	412	13.6	340	10.00	3.00	7	680	T00E500

DS210 Heavy Duty poles available at valmontstructures.com

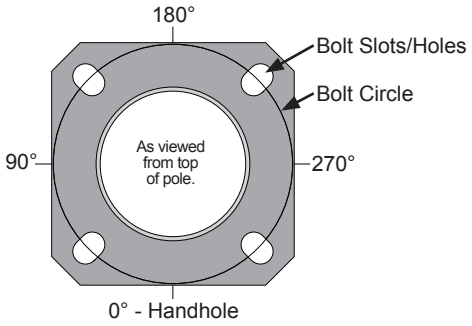
CUT TO 18' HEIGHT

1. Maximum EPA (Effective Projected Area) and weight values are based on top mounted luminaires and/or brackets having a centroid 2'-6" above the Nominal Mounting Height. Variations from sizes above are available upon inquiry at the factory. Satisfactory performance of poles is dependent upon the pole being properly attached to a supporting foundation of adequate design.
2. Structure weight is a nominal value which includes the pole shaft and base plate only.

ANCHORAGE DATA

POLE		BASE PLATE				ANCHOR BOLTS		
		BOLT CIRCLE						
BASE OD (IN)	WALL THK (GA)	DIA (IN)	± (IN)	SQUARE (IN)	THK (IN)	DIA x LENGTH x HOOK (IN)	PROJECTION (IN)	± (IN)
5.90	11	9.00	0.50	10.00	0.875	1.00 x 36.00 x 4.00	4.13	0.25
6.50	11	9.50	0.50	10.50	0.875	1.00 x 36.00 x 4.00	4.13	0.25
6.60	11	9.50	0.50	10.50	0.875	1.00 x 36.00 x 4.00	4.13	0.25
7.00	11	10.00	0.50	10.88	0.875	1.00 x 36.00 x 4.00	4.13	0.25
7.00	7	10.00	0.50	10.88	1.000	1.00 x 36.00 x 4.00	4.25	0.25
7.30	11	10.50	0.50	11.25	0.875	1.00 x 36.00 x 4.00	4.13	0.25
7.82	11	11.00	0.50	11.50	0.875	1.00 x 36.00 x 4.00	4.13	0.25
8.00	11	11.00	0.50	11.50	0.875	1.00 x 36.00 x 4.00	4.13	0.25
8.00	7	11.00	0.50	11.50	1.250	1.25 x 42.00 x 6.00	5.00	0.25
8.50	11	11.50	0.50	12.00	1.000	1.00 x 36.00 x 4.00	4.25	0.25
9.00	11	12.50	0.50	12.38	1.000	1.00 x 36.00 x 4.00	4.25	0.25
9.00	7	12.50	0.50	12.38	1.250	1.25 x 42.00 x 6.00	5.00	0.25
9.50	11	13.00	0.50	13.00	1.000	1.00 x 36.00 x 4.00	4.25	0.25
10.00	11	13.50	0.50	14.00	1.000	1.00 x 36.00 x 4.00	4.25	0.25
10.00	7	13.50	0.50	14.00	1.250	1.25 x 42.00 x 6.00	5.00	0.25

Anchor Base Detail



PRODUCT ORDERING CODE

MODEL	DESIGNATION	FIXTURE MOUNTING	FINISH SYSTEM	STANDARD COLOR OPTIONS	BASE COVER	ANCHOR BOLTS	SUPPLEMENTAL INFO
DS210	590A200	TBD	SUBLIMATION-WOOD EFFECT	--	-- DT	-- AB	

Select Correct Designation from the *Loads and Dimensional Data Chart.*

Drill Mounting (See Orientation)
D1 = (1) Drilling @ 270°
D2 = (2) Drillings @ 90° & 270°
D3 = (3) Drillings @ 60°, 180°, & 300°
D4 = (4) Drillings @ 0°, 90°, 180°, & 270°
D5 = (2) Drillings @ 180° & 270°
D6 = (3) Drillings @ 90°, 180°, & 270°

Tenon Mounting
P2 = 2.38" OD x 4" tenon
P4 = 4.00" OD x 6" tenon
P5 = 2.88" OD x 4" tenon
P6 = 2.88" OD x 5" tenon
P7 = 2.38" OD x 5" tenon
P9 = Special Size (Specify)

Other Options
PC = Pole Cap
PL = Plain Top (No Cap)

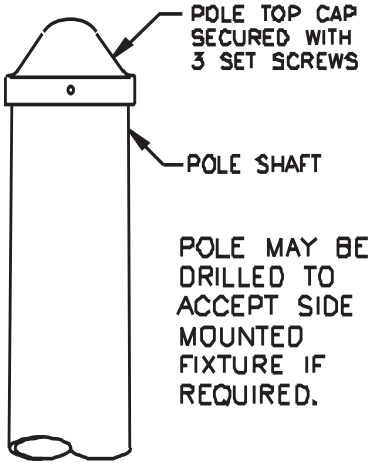
GV = Galvanized
FP = Finish Painted
-----OPTIONAL-----
FPGV = Finish Paint over Galvanizing
VP30 = V-PRO™ 30 System
VP32 = V-PRO™ 32 System
VP53 = V-PRO™ 53 System
VP54 = V-PRO™ 54 System
VP57 = V-PRO™ 57 System
VP100 = V-PRO™ 100 System
VP105 = V-PRO™ 105 System

GV = Galvanized
BK = Black
DB = Dark Bronze
MB = Medium Bronze
WH = White
LG = Light Gray
CB = Bronze
DG = Dark Green
ST = Sandstone
HG = Hunter Green
SG = Slate Gray
SL = Silver
SC = Special Color (Specify)

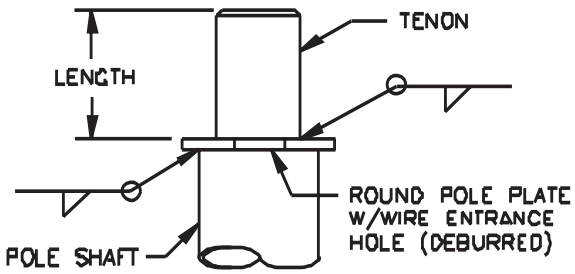
FBC = Full Base Cover
-----OPTIONAL-----
NC = Nut Covers
2T = Square Dart Cover
DT = Dart Round Cover

AB = With Anchor Bolts
LAB = Without Anchor Bolts

20' POLE CUT TO 18'

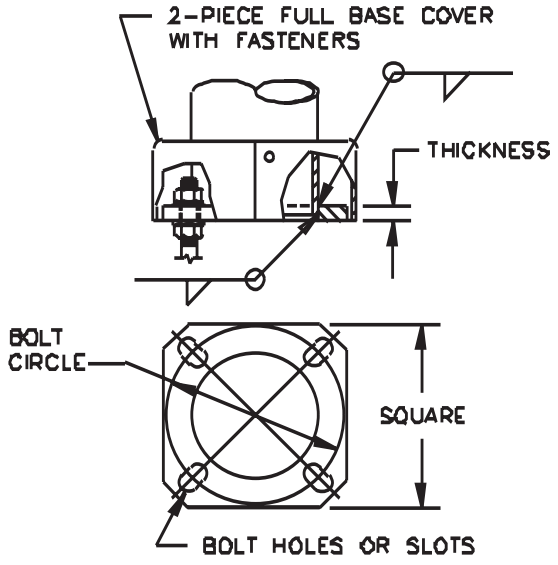


CAP DETAIL (OPTIONAL)

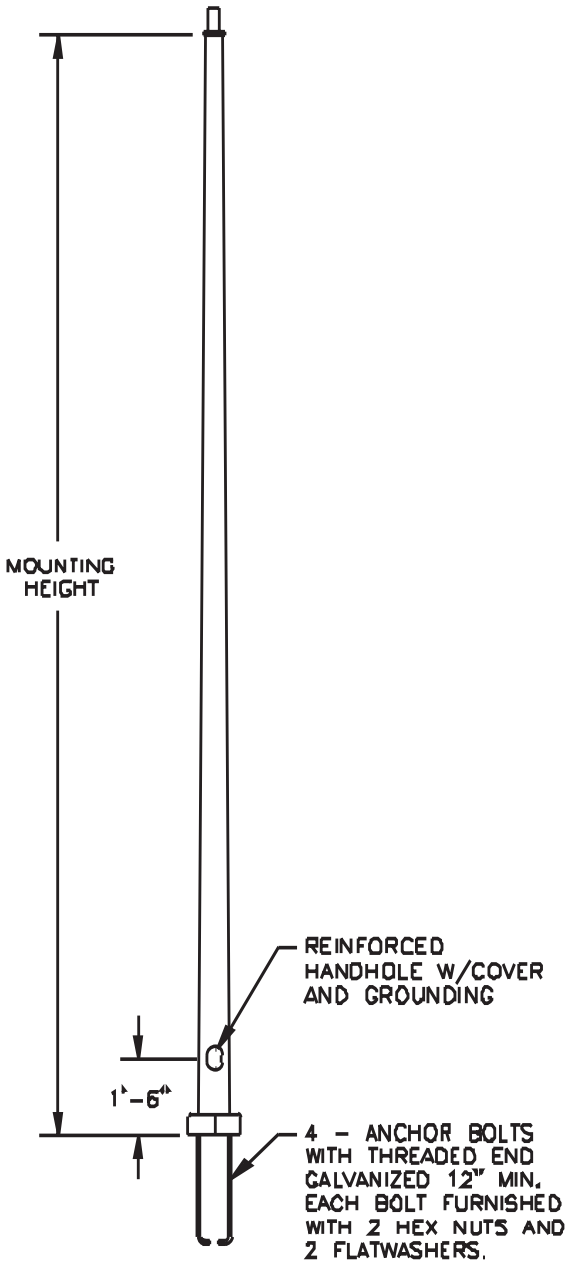


DESIGN NUMBER	O.D. (in)	PIPE SIZE	LENGTH (in)
P2	2.375	2.0" SCHED 80	4
P4	4.000	3.5" SCHED 40	6
PL	2.400	POLE TOP	N.A.

TENON DETAIL (STANDARD)



POLE BASE DETAIL



DS210 POLE DETAIL

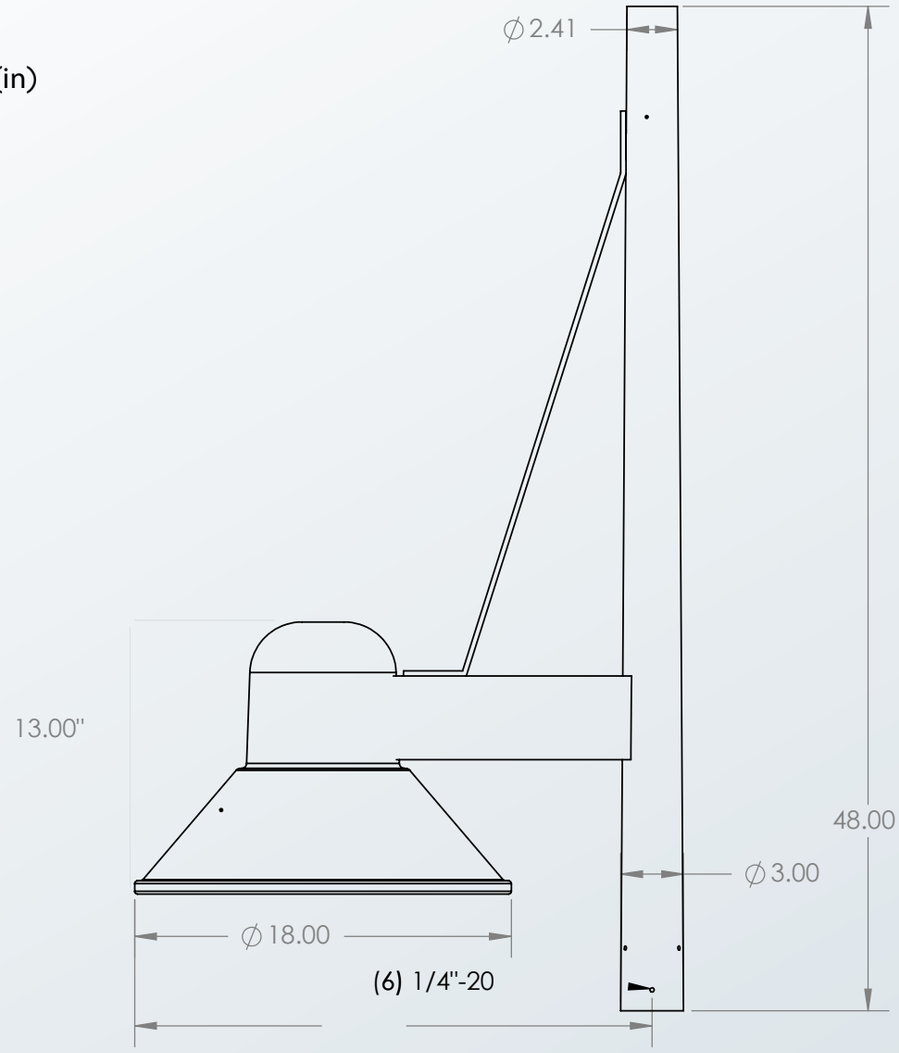
SPC7204 02/17 valmontstructures.com carries the most current spec information and supersedes these guidelines.

AMS WILTON
131 DANBURY ROAD
WILTON, CT
SA4H

HERITAGE

All information is subject to change without notice. Last Updated: 04/14/2021

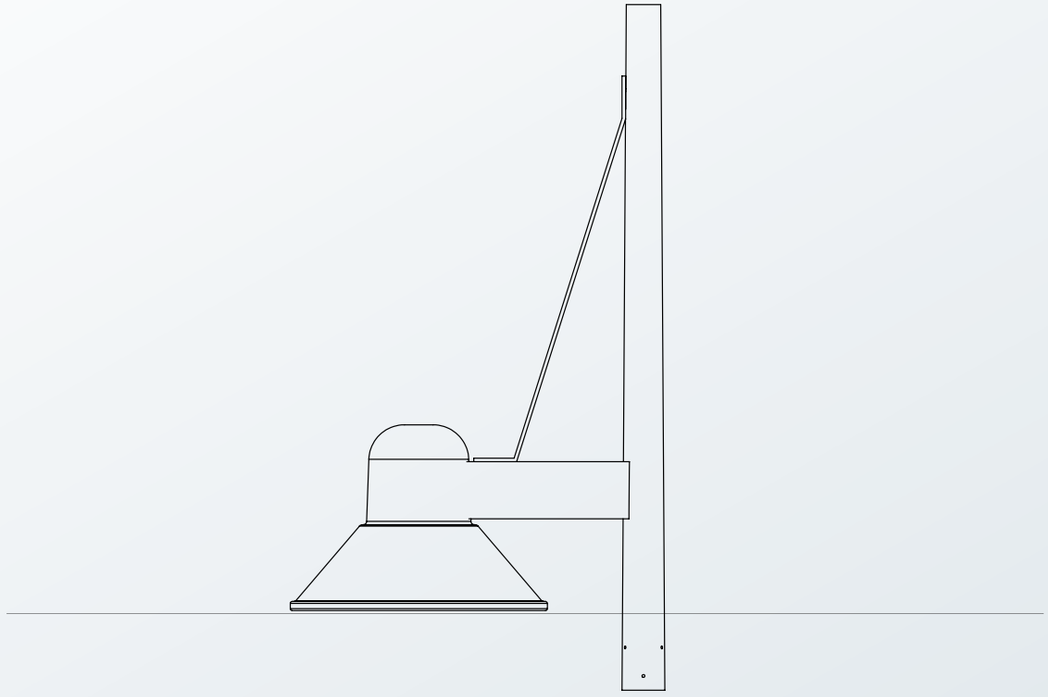
Dimensions (in)



HERITAGE

Weight (lbs)	
Side Mounted with Arm	20
Suspended	13
EPA (ft^2)	2.44
Tenon	Fits 3" Pole

HERITAGE



Powers & Luminous Intensities

3000K	350 mA			500 mA			700 mA		
Number of LEDs	P_t (W)	Φ (lm)	(lm/W)	P_t (W)	Φ (lm)	(lm/W)	P_t (W)	Φ (lm)	(lm/W)
16	21.4	1988	93	28.2	2867	102	36	3636	101
32	34.4	3976	116	48.8	5734	118	68.9	7271	106
48	51	5964	117	72.6	8601	118	102.3	10907	107

4000K	350 mA			500 mA			700 mA		
Number of LEDs	P_t (W)	Φ (lm)	(lm/W)	P_t (W)	Φ (lm)	(lm/W)	P_t (W)	Φ (lm)	(lm/W)
16	21.4	2147	100	28.2	3097	110	36	3932	109
32	34.4	4294	125	48.8	6193	127	68.9	7863	114
48	51	6441	126	72.6	9290	128	102.3	11795	115

Pt (W)= Total power consumption including driver consumption
Φ Nominal flux (lm)

Ordering Information

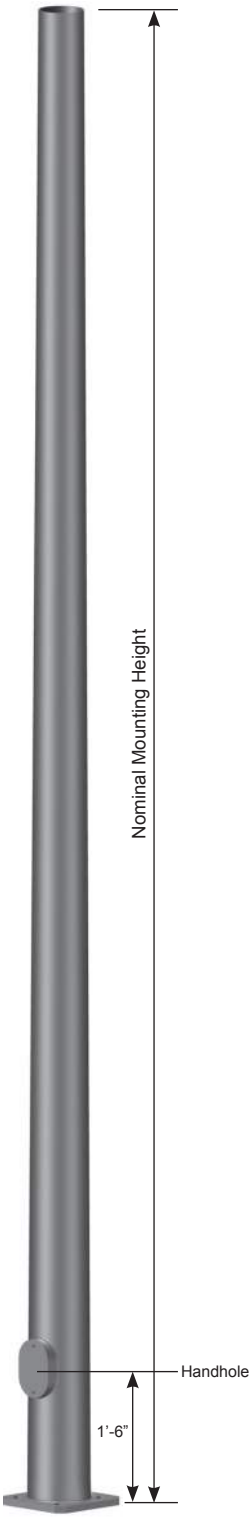
Fixture	# LED	CCT (K)	Drive Current	Distribution	Line Voltage	Mounting	Color	
HER	48	3	50	T4	VOLT	LT	BLK	HS
	16	3 – (3000)	35 – (350)	T2	1 - (120-277)	SUS - (Suspended)	BLK – (Black)	HS-HOUSE SIDE SHIELD
	32	4 – (4000)	50 – (500)	T3	3 - (347-480)	LT- (Lateral)	BRZ – (Bronze)	
	48		70 – (700)	T4			SLV – (Silver)	
			C - (Custom)	T5			WHT – (White)	
							(RAL #)	

All information is subject to change without notice. Last Updated: 01/13/2021

valmont STRUCTURES

ROUND TAPERED STEEL DS210
Light Duty

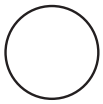
Job Name:	Client Name:
Job Location - City: State:	Created By: Date:
Product: DS210 ---- Quote:	Customer Approval: Date:



Tenon Top

Pole Cap

Cross Section



Handhole

Full Base Cover (Standard Square)

Dart Square-2T (Optional)

Dart Round - DT (Optional)

SPECIFICATIONS

Pole Shaft - The pole shaft is a 1-piece assembly conforming to ASTM A595 Grade A or A572 Grade 55 with a constant linear taper of 0.14 in/ft.

Pole Top - Pole is provided with either a tenon top or drilled for a fixture mounting. A removable pole cap is provided for drilled poles. Consult the luminaire manufacturer for correct tenon size or drill pattern. Other pole top options include pole cap only (PC) or plain top (PL) which is typical when the pole top diameter matches the necessary slip fit dimensions.

Handhole - A reinforced handhole with grounding provision is provided at 1'-6" from the base end of the pole assembly. Each handhole includes a cover and the cover attachment hardware. Poles with a 5.90" base diameter are supplied with a 3" X 5" rectangular handhole. All other pole assemblies are provided with a 4" X 6.5" ovalized handhole. Handhole dimensions are nominal.

Base Cover - A two-piece full base cover fabricated from ABS plastic is provided with each pole assembly. Valmont reserves the right to provide a two-piece steel full base cover on some applications depending upon the finish requirement and/or pole base diameter. Nut covers can be substituted on most models. Additional base cover options, including the Dart Square (2T) cast aluminum cover and Dart Round (DT) cast aluminum cover, are available upon request.

Anchor Bolts - Anchor bolts conform to ASTM F1554 Grade 55 and are provided with two hex nuts and two flat washers. Bolts have an "L" bend on one end and are galvanized a minimum of 12" on the threaded end.

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

Finish - Standard finishes are either Galvanized (GV) or Finish Painted (FP). Additional finish options including Finish Paint over Galvanizing (FPGV) or any of the V-PRO™ Finish Coating Systems are available upon request. See the product ordering code for color options.

Design Criteria - Please reference Design Criteria Specification for appropriate design conditions.

ROUND TAPERED STEEL
DS210
Light Duty

valmont STRUCTURES

Job Name: _____ Client Name: _____

Job Location - City: _____ State: _____ Created By: _____ Date: _____

Product: DS210 ---- Quote: _____ Customer Approval: _____ Date: _____

DESIGNATION, LOAD AND DIMENSIONAL DATA

DESIGN INFORMATION							POLE DIMENSIONS				DESIGNATION
	80 MPH w/1.3 GUST		90 MPH w/1.3 GUST		100 MPH w/1.3 GUST						
NOMINAL MOUNTING HEIGHT	MAX EPA[1] (SQ FT)	MAX WEIGHT[1] (LBS)	MAX EPA[1] (SQ FT)	MAX WEIGHT[1] (LBS)	MAX EPA[1] (SQ FT)	MAX WEIGHT[1] (LBS)	BASE OD (IN)	TOP OD (IN)	WALL THK (GA)	STRUCTURE WEIGHT[2] (LBS)	
20'-0"	19.3	482	15.1	377	12.2	305	5.90	3.10	11	140	590A200
	24.2	605	19.3	482	15.6	390	6.50	3.70	11	160	650A200
25'-0"	12.5	312	9.9	247	8.0	200	5.90	2.40	11	155	590A250
	20.3	507	16.2	405	13.1	327	7.00	3.50	11	200	700A250
	30.5	760	24.0	625	19.8	495	7.00	3.50	7	280	700E250
30'-0"	11.7	292	9.3	232	7.5	187	6.60	2.40	11	200	660A300
	18.9	473	14.9	373	12.0	300	8.00	3.80	11	265	800A300
	33.5	838	27.0	675	22.0	550	8.00	3.80	7	380	800E300
35'-0"	11.2	280	8.9	222	7.1	177	7.30	2.40	11	250	730A350
	18.9	472	15.1	377	12.2	305	8.50	3.60	11	315	850A350
	23.2	580	18.2	455	14.5	363	9.50	4.60	11	370	950A350
39'-0"	10.7	267	8.5	212	6.6	165	7.82	2.40	11	285	782A389
	17.2	430	13.5	338	10.8	270	9.00	3.58	11	355	900A389
	28.5	715	23.0	575	19.0	475	9.00	3.58	7	515	900E389
45'-0"	17.4	435	13.5	338	10.6	265	10.00	3.70	11	450	T00A450
	28.5	715	23.0	575	19.0	475	10.00	3.70	7	650	T00E450
50'-0"	13.2	330	10.6	265	8.3	208	10.00	3.00	11	475	T00A500
	20.5	512	16.5	412	13.6	340	10.00	3.00	7	680	T00E500

DS210 Heavy Duty poles available at valmontstructures.com

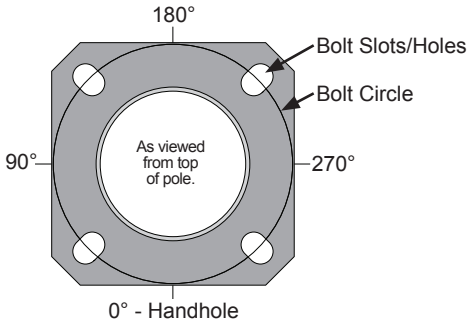
CUT TO 18' HEIGHT

1. Maximum EPA (Effective Projected Area) and weight values are based on top mounted luminaires and/or brackets having a centroid 2'-6" above the Nominal Mounting Height. Variations from sizes above are available upon inquiry at the factory. Satisfactory performance of poles is dependent upon the pole being properly attached to a supporting foundation of adequate design.
2. Structure weight is a nominal value which includes the pole shaft and base plate only.

ANCHORAGE DATA

POLE		BASE PLATE				ANCHOR BOLTS		
		BOLT CIRCLE						
BASE OD (IN)	WALL THK (GA)	DIA (IN)	± (IN)	SQUARE (IN)	THK (IN)	DIA x LENGTH x HOOK (IN)	PROJECTION (IN)	± (IN)
5.90	11	9.00	0.50	10.00	0.875	1.00 x 36.00 x 4.00	4.13	0.25
6.50	11	9.50	0.50	10.50	0.875	1.00 x 36.00 x 4.00	4.13	0.25
6.60	11	9.50	0.50	10.50	0.875	1.00 x 36.00 x 4.00	4.13	0.25
7.00	11	10.00	0.50	10.88	0.875	1.00 x 36.00 x 4.00	4.13	0.25
7.00	7	10.00	0.50	10.88	1.000	1.00 x 36.00 x 4.00	4.25	0.25
7.30	11	10.50	0.50	11.25	0.875	1.00 x 36.00 x 4.00	4.13	0.25
7.82	11	11.00	0.50	11.50	0.875	1.00 x 36.00 x 4.00	4.13	0.25
8.00	11	11.00	0.50	11.50	0.875	1.00 x 36.00 x 4.00	4.13	0.25
8.00	7	11.00	0.50	11.50	1.250	1.25 x 42.00 x 6.00	5.00	0.25
8.50	11	11.50	0.50	12.00	1.000	1.00 x 36.00 x 4.00	4.25	0.25
9.00	11	12.50	0.50	12.38	1.000	1.00 x 36.00 x 4.00	4.25	0.25
9.00	7	12.50	0.50	12.38	1.250	1.25 x 42.00 x 6.00	5.00	0.25
9.50	11	13.00	0.50	13.00	1.000	1.00 x 36.00 x 4.00	4.25	0.25
10.00	11	13.50	0.50	14.00	1.000	1.00 x 36.00 x 4.00	4.25	0.25
10.00	7	13.50	0.50	14.00	1.250	1.25 x 42.00 x 6.00	5.00	0.25

Anchor Base Detail



PRODUCT ORDERING CODE

MODEL	DESIGNATION	FIXTURE MOUNTING	FINISH SYSTEM	STANDARD COLOR OPTIONS	BASE COVER	ANCHOR BOLTS	SUPPLEMENTAL INFO
DS210	590A200	TBD	SUBLIMATION-WOOD EFFECT	--	-- DT	-- AB	

Select Correct Designation from the *Loads and Dimensional Data Chart.*

Drill Mounting (See Orientation)
D1 = (1) Drilling @ 270°
D2 = (2) Drillings @ 90° & 270°
D3 = (3) Drillings @ 60°, 180°, & 300°
D4 = (4) Drillings @ 0°, 90°, 180°, & 270°
D5 = (2) Drillings @ 180° & 270°
D6 = (3) Drillings @ 90°, 180°, & 270°

Tenon Mounting
P2 = 2.38" OD x 4" tenon
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PL = Plain Top (No Cap)

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FP = Finish Painted
-----OPTIONAL-----
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VP32 = V-PRO™ 32 System
VP53 = V-PRO™ 53 System
VP54 = V-PRO™ 54 System
VP57 = V-PRO™ 57 System
VP100 = V-PRO™ 100 System
VP105 = V-PRO™ 105 System

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MB = Medium Bronze
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CB = Bronze
DG = Dark Green
ST = Sandstone
HG = Hunter Green
SG = Slate Gray
SL = Silver
SC = Special Color (Specify)

FBC = Full Base Cover
-----OPTIONAL-----
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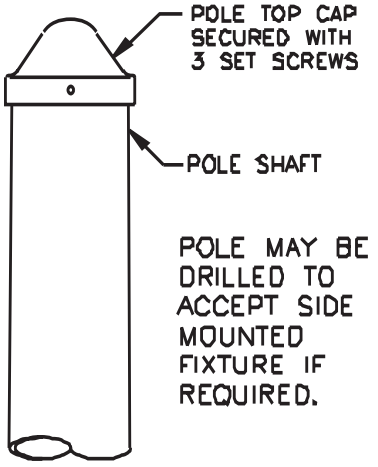
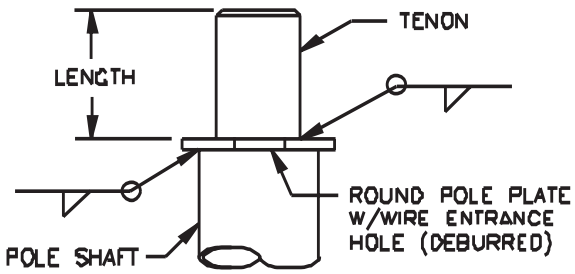
2T = Square Dart Cover
DT = Dart Round Cover

AB = With Anchor Bolts
LAB = Without Anchor Bolts

20' POLE CUT TO 18'

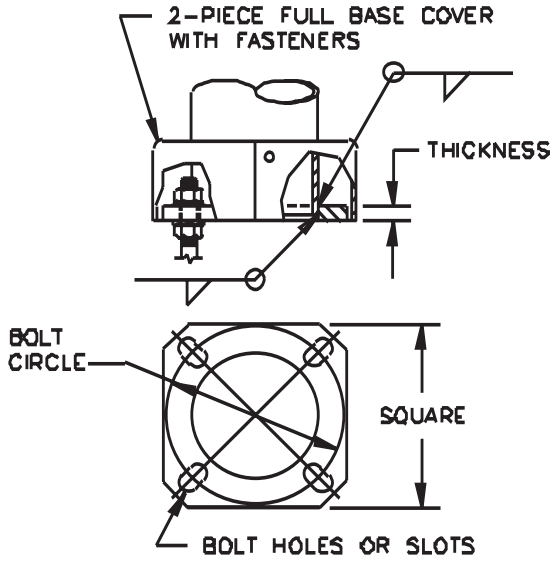


CAP DETAIL (OPTIONAL)

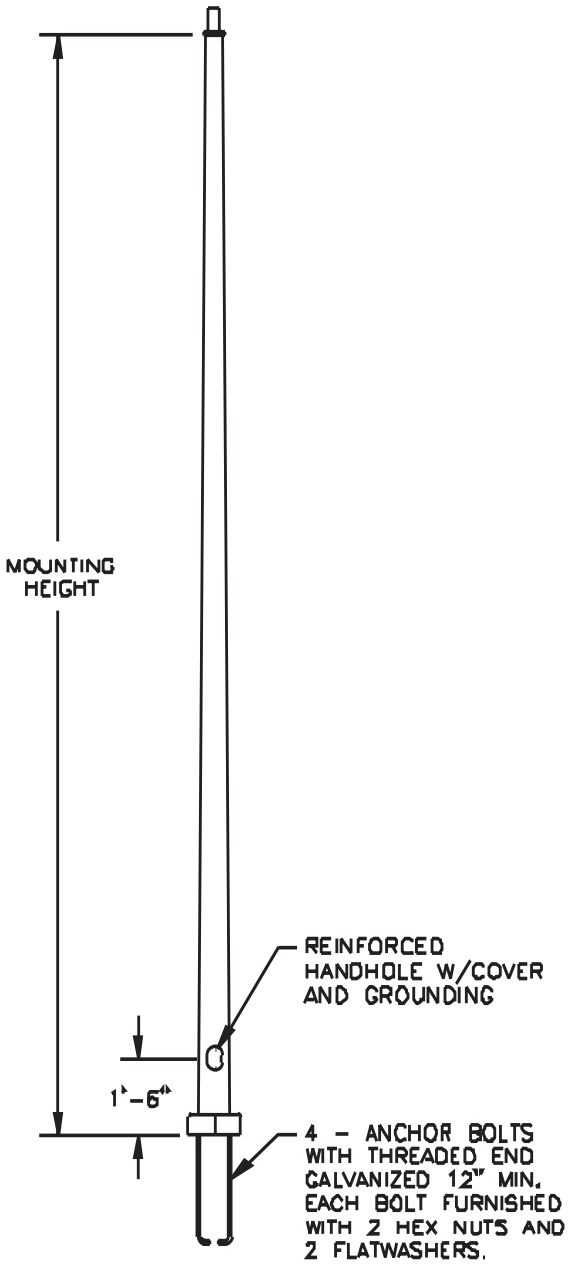


DESIGN NUMBER	O.D. (in)	PIPE SIZE	LENGTH (in)
P2	2.375	2.0" SCHED 80	4
P4	4.000	3.5" SCHED 40	6
PL	2.400	POLE TOP	N.A.

TENON DETAIL (STANDARD)



POLE BASE DETAIL



DS210 POLE DETAIL

SPC7204 02/17 valmontstructures.com carries the most current spec information and supersedes these guidelines.

HADCO by signify

Landscape

BL9 FlexScape LED

Accent Aluminum

Breaking new ground with optimal versatility, the **FlexScape BL9** has zoomable optics (15° to 35°) & 60° by switching optic element. This adjustable luminaire also has the ability to switch light output in 4 steps.

Project:
Location:
Cat.No:
Type:
Lamps: Qty:
Notes:

AMS WILTON
131 DANBURY ROAD
WILTON, CT
TL

Ordering guide

example: BL9DW-AS7

Series	Lamping	CCT	Finish	Mount
BL9	D	–		S7
BL9 Low Voltage 9W Bullet Lighting	**D** LED	**W** Warm (3000K) **C** Cool (4000K)	**A** Black **H** Bronze	**S7** Stake

Features

1. Housing/Construction: A360° die-cast aluminum, tool-less twist off/on shroud. Teeth to lock aim the knuckle arm for accurate aiming secured by black oxide Phillips-head stainless steel screw and metal locking nut to provide durable mounting of the accent. A 360° die-cast aluminum housing for driver with thermal management creates continuity with housing by repeating similar shape. All gaskets are 100% molded silicone.
2. Electrical: 10W (on high setting) Input voltage range (VAC): 10-14. Pre-wired with a 3-ft. pigtail for easy hookup to the low voltage supply cable. Driver housed in injected molded case with electronics encapsulated. 12V class 2 driver with integral switch for 4 preset light levels.
3. LED Board and Array: Single Luxeon M LED.
4. Controls: 12 Volt Class 2 driver with integral switch provides simple customer access to the adjustment between 4 present light levels.
5. Optical Systems: Flat glass, low iron tempered clear glass, c-channel gasket slips onto lens without tools or RTV. Zoomable optic / Injection molded acrylic (PMMA) clear, highly polished molded with select surfaces textured. Zoomable lens provides Narrow 15° to Medium 35° beam pattern depending on the position, Inter-changeable lens provides Wide 60 flood output.
6. Mounting: 1/2"-14 NPSM male threads to screw onto mounting stake, or other mounting accessory, sold separately.

Finish

Thermoset polyester powder coat is electrostatically applied after a five-stage conversion cleaning process and bonded by heat fusion thermosetting.

Lamps

Integral LED module

Power Supply

Fixtures can be used with the HADCO Low Voltage Transformers series TC152, TSS, TC. Power supplies are available in 150W / 300W / 600W and 900W.
Ask your Philips representative for a full list of options.

IP66 Rating

Dust tight and sealed against direct jets of water.

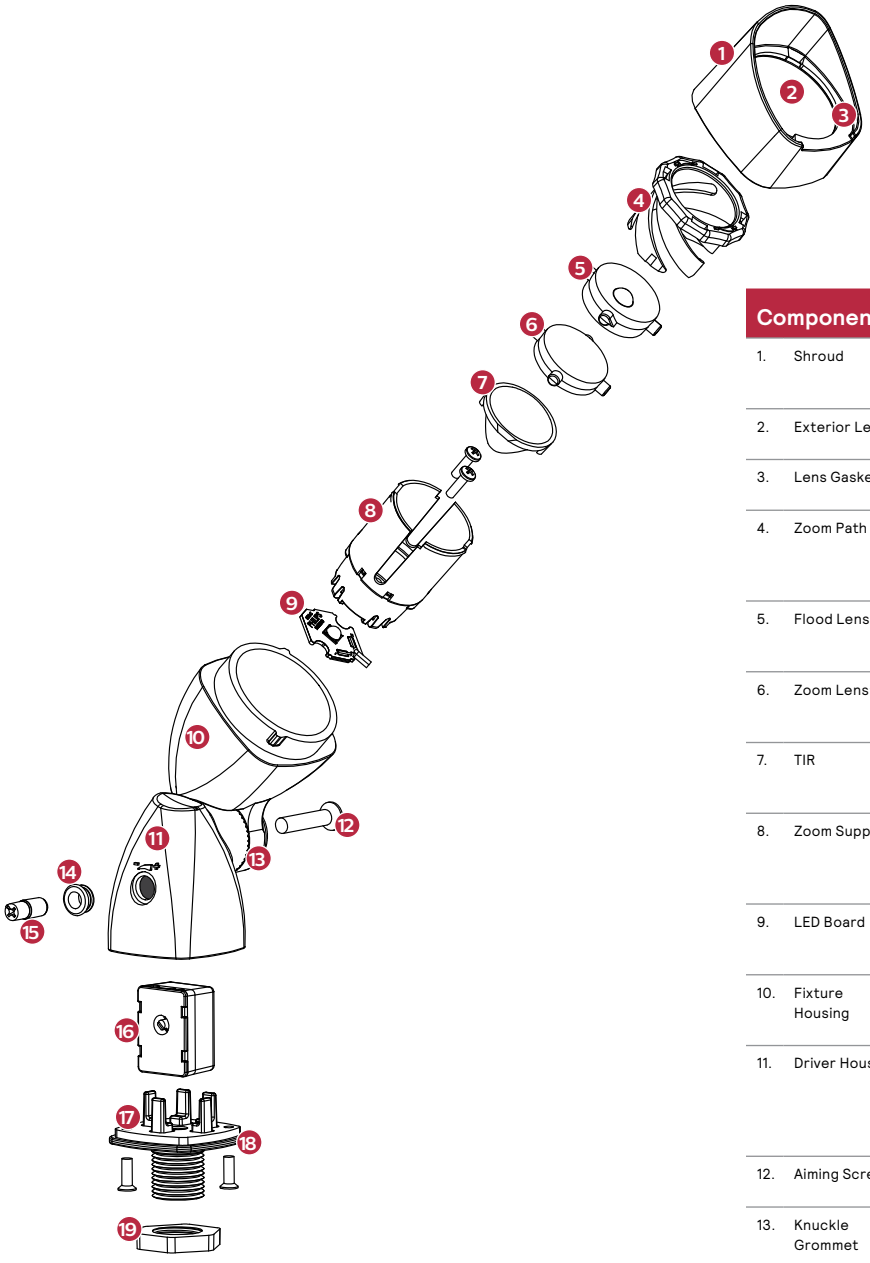
Labels

ETL Listed to U.S. safety standards for wet locations. cETL listed to Canadian safety standards for wet locations. Manufactured to ISO 9001:2008 Standards. 5-year limited warranty.

Watts Consumed / Needed to Drive	2.0W	4.5W	8.6W	10.7W
mA	230	600	1100	1500
3K 15°	113	241	429	567
3K 35°	132	284	505	669
3K 60°	111	241	428	561
4K 15°	131	269	477	602
4K 35°	155	316	562	710

BL9 FlexScape LED

Accent aluminum



Component	Material	Finish	Feature/Function
1. Shroud	360° die-cast aluminum	Textured bronze or black, powder-coated aluminum	Tool-less, twist-off/on attachment to housing.
2. Exterior Lens	flat glass (low-iron)	Clear (tempered glass)	Environmental barrier (sealing).
3. Lens Gasket	100% molded-silicone	Black	Molded gasket slips onto lens without tools or RTV.
4. Zoom Path	Injection-molded, UV-resistance polycarbonate	White[1]	Tool-lessly adjustable/removable path for Zoom Lens and Flood Lens, high brightness white for maximum light output.
5. Flood Lens[3]	Injection-molded acrylic (PMMA)	Clear[2]	Interchangeable lens provides 60° flood output.
6. Zoom Lens[3]	Injection-molded acrylic (PMMA)	Clear[2]	Interchangeable lens provides 15° to 35° beam depending on position.
7. TIR	Injection-molded acrylic (PMMA)	Clear[2]	Snap-in optic shapes beam for zoom and flood lenses.
8. Zoom Support	Injection-molded, UV-resistance polycarbonate	White[1]	Support for TIR and Zoom Path, locates optics precisely relative to LED, high brightness white for maximum light output.
9. LED Board	Philips Lumileds Luxeon M	White solder mask, silk screen printing	Custom PCB with Philips Lumileds Luxeon M, 3000K/4000K.
10. Fixture Housing	360° die-cast aluminum	Textured bronze or black, powder-coated aluminum	Tool-less attachment to shroud, teeth to lock aiming angle
11. Driver Housing	360° die-cast aluminum	Textured bronze or black, powder-coated aluminum	Separate housing for driver helps with thermal management and creates continuity with housing by repeating similar shape.
12. Aiming Screw	Stainless steel	Black (coating for appearance)	Phillips-head screw, loosen slightly to adjust aiming.
13. Knuckle Grommet	100% molded-silicone	Black	Molded gasket presses into knuckle and provides environmental barrier and sealing between optical and driver compartments.
14. Switch Grommet	100% molded-silicone	Black	Molded gasket provides seal around dimming switch.
15. Switch Knob	Injection molded polycarbonate	Black	Switch knob provides simple customer access to dimming switch for easy adjustment between 4 preset light levels.
16. Driver	Injection molded case, electronics, encapsulant	Black	12VAC Class 2 driver with integral switch for multiple light levels.
17. Driver Housing Gasket	100% molded-silicone	Black	Molded gasket provides seal for driver housing. (also acts as strain-relief)
18. Driver Base	360° die-cast aluminum	Textured bronze or black, powder-coated aluminum	Positions driver inside driver housing and provides durable mounting for luminaire.
19. Locking Nut			Metal nut allows orientation of Accent to be locked.

1. Highly polished molded.

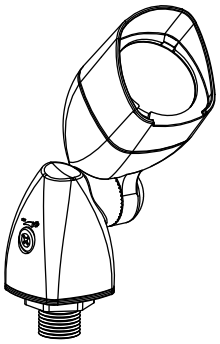
2. Highly polished molded, select surfaces textured.

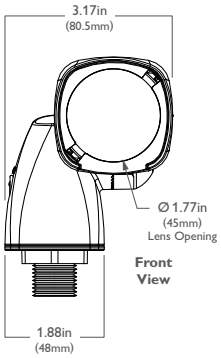
3. Select from either a Zoom or Flood lens optics for customized lighting effects.

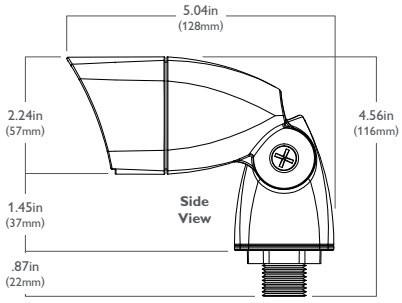
BL9 FlexScape LED

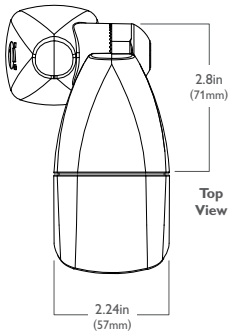
Accent aluminum

Dimensions



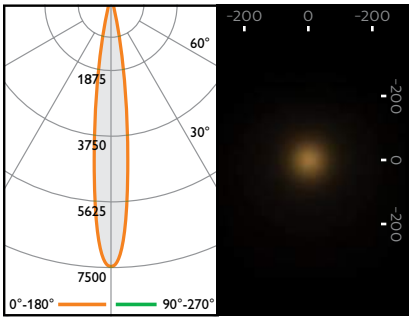






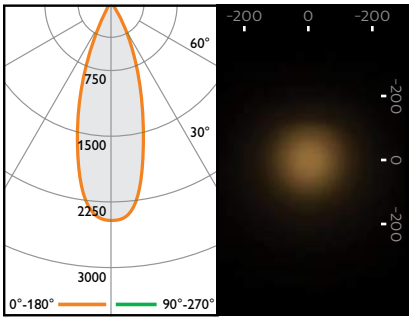
BL9 Warm 3000K

Spot
minimum output



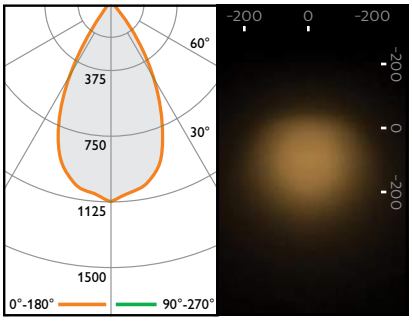
TR140208 SYM L.O.R.= 1.00
(cd/1000lm)

Narrow Flood
minimum output



TR140211 SYM L.O.R.= 1.00
(cd/1000lm)

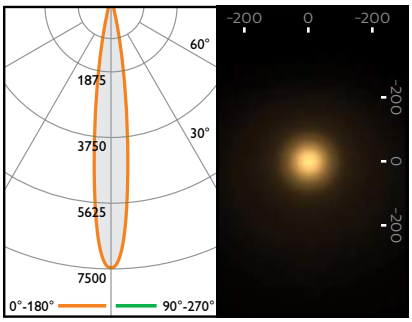
Flood
minimum output



TR140237 SYM L.O.R.= 1.00
(cd/1000lm)

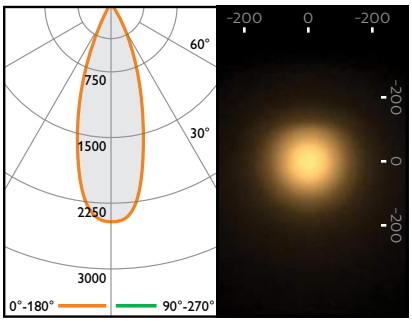
BL9 Cool 4000K

Spot
maximum output



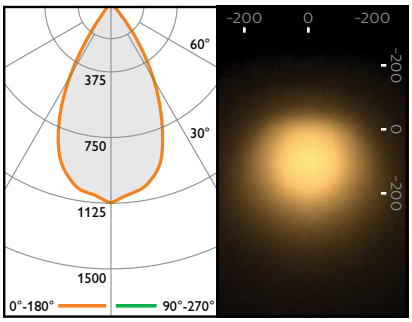
TR140210 SYM L.O.R.= 1.00
(cd/1000lm)

Narrow Flood
maximum output



TR140213 SYM L.O.R.= 1.00
(cd/1000lm)

Flood
maximum output



TR120237 SYM L.O.R.= 1.00
(cd/1000lm)

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GARDCO by signify

Wall Mount

PureForm

PWS wall sconce with comfort optics

AMS WILTON
131 DANBURY ROAD
WILTON, CT
WP3

Project:

Location:

Cat.No:

Type:

Lamps: Qty:

Notes:

Gardco PureForm LED wall sconce comfort PWS offers a sleek, low profile design that will complement a range of architectural styles. Comfort optics are designed to enhance visual comfort by reducing glare. PureForm wall sconce provides up to 10,700 lumens to accommodate multiple mounting heights up to 20', and is available with Type 2, 3, 4, optical distributions. A full range of control options is available for additional energy savings. Optional emergency battery backup option is available for path-of-egress and is integral to the luminaire.

Ordering guide

example: PWS-196L-650-NW-G2-2-UNV-DGY

Prefix	Number of LEDs	Drive Current	LED Color - Generation	Distribution	Emergency	Voltage	Options: Dimming controls	Options: Motion sensing	Options: Photo-sensing	Options: Electrical	Finish
PWS	196L	650MA	WW-G2	3		UNV					FINISH
PWS PureForm wall sconce	**196L** 196 LEDs	**450** 450 mA	**WW-G2** Warm White 3000K, 80 CRI Generation 2	**2** Comfort Type 2	**EBP** Emergency Battery Pack [1,7,11]	**UNV** 120–277V	**DD** 0–10V External dimming (controls by others)[4]	**MMRI** High-Frequency motion sensor integral [7,8]	**PCB** Photocontrol Button [7,9,10]	**Fusing**	**Textured**
		650 650 mA	**NW-G2** Neutral White 4000K, 80 CRI Generation 2	**3** Comfort Type 3	**EBPC** Emergency Battery Pack Cold Weather [2,7,12]	**HVU** 347–480V	**FAWS** Field Adjustable Wattage Selector [4,5]			**F1** Single (120, 277, 347VAC) [9]	**BK** Black
		1150 1150 mA [1]	**CW-G2** Cool White 5000K, 70 CRI Generation 2	**4** Comfort Type 4		**120** 120V	**LLC** Integral wireless module [4,5,6,7]			**F2** Double (208, 240, 480VAC) [9]	**WH** White
		1675 1675 mA [1]	**WY-G2** Warm Yellow 2700K, 80 CRI Generation 2 [3]		Leave blank to omit an emergency option	**208** 208V	**BL** BL Bi-level functionary with motion sensor [4]			**F3** Canadian Double Pull (208, 240, 480VAC) [9]	**BZ** Bronze
		2100 2100 mA [1,2]	**BW-G2** Balanced White 3500K, 80 CRI Generation 2 [3]			**240** 240V	**DynaDimmer: Automatic Profile Dimming** [4,5,7]			**Surge Protection (10kA is standard)**	**DGY** Dark Gray
	140L 140 LEDs		**AM-G2** Direct Amber (>590nm) Generation 2 [3,13]			**277** 277V	**CS50** Security 50% Dimming, 7 hours			**SP2** Increased 20kA	**MGY** Medium Gray
						347 347V	**CM50** Median 50% Dimming, 8 hours				**Customer specified**
						480 480V	**CS30** Security 30% Dimming, 7 hours				**RAL** Specify optional color or RAL (ex: RAL7024)
							CM30 Median 30% Dimming, 8 hours				**CC** Custom color (Must supply color chip for required factory quote)

1. 1150, 1675, and 2100mA not available with emergency battery backup (EBP).
2. 2100mA not available with emergency battery backup cold weather (EBPC).
3. Extended lead times apply. Contact factory for details.
4. Not available with other control options.
5. Not available with motion sensor.
6. Not available with photocontrol.
7. Not available in 347 or 480V.
8. MMRI not available with emergency battery backup cold weather (EBPC).
9. Must specify input voltage. UNV and HVU not valid options.
10. Not available with wireless control (LLC).
11. Not available with Dynadimmer (CS/CM).
12. Not available with Wireless control (LLC), or DynaDimmer (CS/CM).
13. Not available in 2100mA

PWS PureForm LED wall sconce

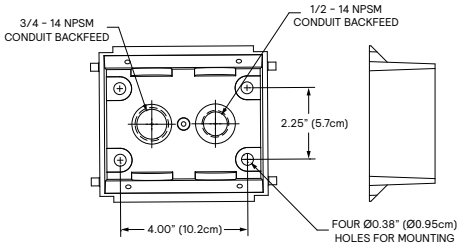
wall mount - with Comfort Optics

Luminaire Accessories[1] (order separately)

Mounting Accessories

Wall Mount

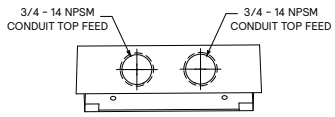
PWS-WS-G2	Wall Mounted Box for Surface Conduit



System accessories

Wireless system remote mount module

LLCR2-(F)	#2 lens - specify finish in place of (F)
LLCR3-(F)	#3 lens - specify finish in place of (F)

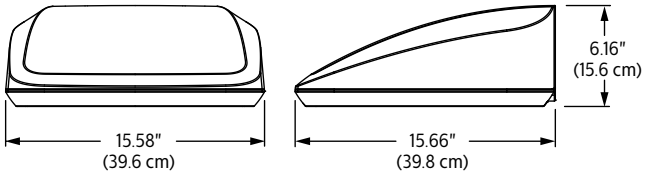


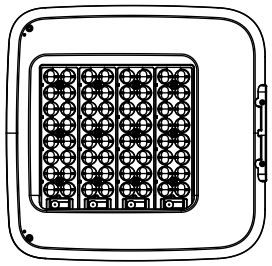
Wireless system remote controller accessory

Wireless system offers a remote radio/sensor module that allows connection to a Limelight system (sold by others). Remote module can be mounted to wall or pole with j-box supplied. May be specified by choosing one of two different lenses to accommodate a variety of mounting heights/sensor detection ranges. Must specify option DD on luminaires that are planned to be used with remote mount controllers.

1. Consult Signify to confirm whether specific accessories are BAA-compliant.

Dimensions





Luminaire weights

PureForm LED wall sconce PWS	Weight
Luminaire	20 lbs
Luminaire - EBP (EM battery pack)	22 lbs
Luminaire - EBPC (EM battery pack cold weather)	25 lbs

PWS PureForm LED wall sconce

wall mount – with Comfort Optics

LED Wattage and Lumen Values – 5000K

Ordering Code	LED QTY	System Current (mA)	Color Temp	Avg System Wattage (W)	Type 2			Type 3			Type 4		
					Lumen Output	BUG Rating	Efficacy (Lm/W)	Lumen Output	BUG Rating	Efficacy (Lm/W)	Lumen Output	BUG Rating	Efficacy (Lm/W)
PWS-196L-450-CW-G2-x-UNV	196	450	5000	21	2228	B1-U0-G1	107	2492	B1-U0-G1	119	2496	B2-U0-G1	119
PWS-196L-650-CW-G2-x-UNV	196	650	5000	30	3176	B1-U0-G1	106	3553	B2-U0-G2	118	3559	B2-U0-G1	119
PWS-196L-1150-CW-G2-x-UNV	196	1150	5000	51	5576	B2-U0-G2	109	6237	B2-U0-G2	122	6248	B3-U0-G2	123
PWS-196L-1675-CW-G2-x-UNV	196	1675	5000	75	7888	B3-U0-G3	105	8823	B3-U0-G3	118	8839	B3-U0-G2	118
PWS-196L-2100-CW-G2-x-UNV	196	2100	5000	95	9669	B3-U0-G3	102	10816	B3-U0-G3	114	10835	B3-U0-G3	114

LED Wattage and Lumen Values – 4000K

Ordering Code	LED QTY	System Current (mA)	Color Temp	Avg System Wattage (W)	Type 2			Type 3			Type 4		
					Lumen Output	BUG Rating	Efficacy (Lm/W)	Lumen Output	BUG Rating	Efficacy (Lm/W)	Lumen Output	BUG Rating	Efficacy (Lm/W)
PWS-196L-450-NW-G2-x-UNV	196	450	4000	21	2122	B1-U0-G1	102	2373	B1-U0-G1	114	2377	B2-U0-G1	114
PWS-196L-650-NW-G2-x-UNV	196	650	4000	30	3024	B1-U0-G1	101	3383	B2-U0-G2	113	3389	B2-U0-G1	113
PWS-196L-1150-NW-G2-x-UNV	196	1150	4000	51	5310	B2-U0-G2	104	5940	B2-U0-G2	116	5951	B3-U0-G2	117
PWS-196L-1675-NW-G2-x-UNV	196	1675	4000	75	7512	B3-U0-G3	100	8403	B3-U0-G3	112	8418	B3-U0-G2	112
PWS-196L-2100-NW-G2-x-UNV	196	2100	4000	95	9208	B3-U0-G3	97	10301	B3-U0-G3	109	10319	B3-U0-G2	109

LED Wattage and Lumen Values – 3000K

Ordering Code	LED QTY	System Current (mA)	Color Temp	Avg System Wattage (W)	Type 2			Type 3			Type 4		
					Lumen Output	BUG Rating	Efficacy (Lm/W)	Lumen Output	BUG Rating	Efficacy (Lm/W)	Lumen Output	BUG Rating	Efficacy (Lm/W)
PWS-196L-450-WW-G2-x-UNV	196	450	3000	21	2040	B1-U0-G1	98	2282	B1-U0-G1	109	2286	B2-U0-G1	109
PWS-196L-650-WW-G2-x-UNV	196	650	3000	30	2908	B1-U0-G1	97	3253	B1-U0-G1	108	3259	B2-U0-G1	109
PWS-196L-1150-WW-G2-x-UNV	196	1150	3000	51	5106	B2-U0-G2	100	5712	B2-U0-G2	112	5722	B3-U0-G2	112
PWS-196L-1675-WW-G2-x-UNV	196	1675	3000	75	7223	B3-U0-G3	96	8080	B3-U0-G3	108	8094	B3-U0-G2	108
PWS-196L-2100-WW-G2-x-UNV	196	2100	3000	95	8854	B3-U0-G3	93	9905	B3-U0-G3	105	9922	B3-U0-G2	105

Values from photometric tests performed in accordance with IESNA LM-79 and are representative of the configurations shown. Actual performance may vary due to installation and environmental variables, LED and driver tolerances, and field measurement considerations. It is highly recommended to confirm performance with a photometric layout.

NOTE: Some data may be scaled based on tests of similar (but not identical) luminaires. Contact factory for configurations not shown.

PWS PureForm LED wall sconce

wall mount – with Comfort Optics

LED Wattage and Lumen Values (Emergency Mode)

							Lumen Outputs					
					Avg. System Watts		Type 2		Type 3		Type 4	
Ordering Code	LED Qty	LED Current (mA)	Color Temp.	Temp Range (°C)	Normal Mode	Emergency Mode	Normal Mode	Emergency Mode	Normal Mode	Emergency Mode	Normal Mode	Emergency Mode
PWS-196L-450-NW-G2-x-EBP-UNV	196	450	4000	0 to 40	22	10	2448	1376	2516	1415	2671	1502
PWS-196L-650-NW-G2-x-EBP-UNV	196	650	4000	0 to 40	30	10	3412	1376	3508	1415	3724	1502
PWS-196L-450-NW-G2-x-EBPC-UNV	196	450	4000	-20 to 40	22	18	2448	1964	2516	2019	2671	2143
PWS-196L-650-NW-G2-x-EBPC-UNV	196	650	4000	-20 to 40	30	18	3412	1964	3508	2019	3724	2143
PWS-196L-1150-NW-G2-x-EBPC-UNV	196	1150	4000	-20 to 40	52	18	5899	1964	6064	2019	6436	2143
PWS-196L-1675-NW-G2-x-EBPC-UNV	196	1675	4000	-20 to 40	75	18	8189	1964	8419	2019	8935	2143

For emergency EBPC option, publish values are based on initial lumens.

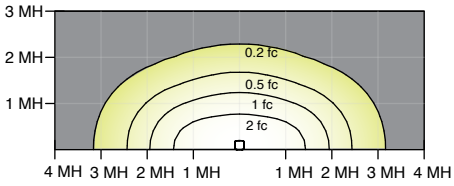
Predicted Lumen Depreciation Data

Predicted performance derived from LED manufacturer's data and engineering design estimates, based on IESNA LM-80 methodology. Actual experience may vary due to field application conditions. L_{70} is the predicted time when LED performance depreciates to 70% of initial lumen output. Calculated per IESNA TM21-11. Published L_{70} hours limited to 6 times actual LED test hours

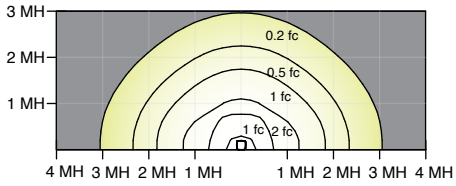
Ambient Temperature °C	Drive current	Calculated L_{70} Hours	L_{70} per TM-21	Lumen Maintenance % at 60,000 hrs
25°C	**up to 2100 mA**	**>100,000 hours**	**>42,000 hours**	**>88%**

Optical Distributions

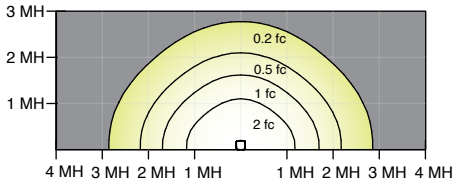
Based on 20' mounting height



Comfort Type 2



Comfort Type 3



Comfort Type 4

PWS PureForm LED wall sconce

wall mount – with Comfort Optics

Specifications

Housing

Main body housing and door frame made of low copper die cast aluminum alloy for a high resistance to corrosion. Door hinges secured by aircraft cable to allow access to driver or other electronic components for servicing. The door frame acts as the main heat transfer component and it is optimized to allowing the main housing to have no fins, giving the freedom to have a clean minimalist aesthetic design while allowing it to house emergency battery backup equipment and various other options. Luminaire housing rated to IP65, tested in accordance to Section 9 of IEC 60598-1.

Light engine

Light guide technology provides low-glare, uniform illumination. Composed of LEDs strategically positioned on the edge of the optical plate. Light engine luminous opening size optimized to best achieve a balance between lumen output and optical performance with the need to provide visual comfort. Light engine frame ensures contact with housing to provide heat conduction and sealing against the elements. Light engine is RoHS compliant. Standard color temperatures: 3000K +/- 130K, 4000K+/- 130K, 5000K +/- 225K. Minimum CRI of 70. Also available in 2700K and Amber (>590nm) with extended lead times. Contact factory for details. LED light engine is rated IP65 in accordance to Section 9 of IEC 60598-1.

Energy saving benefits

System efficacy up to 122 lms/W with significant energy savings over Pulse Start Metal Halide luminaires. Optional control options provide added energy savings during unoccupied periods.

Optical systems

The advanced LED comfort optical system provides Types 2, 3, and 4. Composed of high performance UV-stabilized optical grade lens with molded micro-optics to achieve desired distribution optimized to get a exceptional lighting uniformity. Performance tested per LM-79 and TM-15 (IESNA) certifying its photometric performance. Luminaire designed with 0% uplight (U0 per IESNA TM-15).

Mounting

Mounting is completed through integral back plate that features a separate recessed feature for hook and lock quick mount plate that secures with two set screws from bottom of luminaire. Luminaire ships fully assembled, ready to install.

Control options

0-10V dimming (DD): Access to 0-10V dimming leads supplied through back of luminaire (for secondary dimming controls by others). Cannot be used with other control options.

Field Adjustable Wattage Selector (FAWS): Luminaire equipped with the ability to manually adjust the wattage in the field to reduce total luminaire lumen output and light levels. Comes pre-set to the highest position at the lumen output selected. Use chart below to estimate reduction in lumen output desired. Cannot be used with other control options or motion response.

FAWS Position	Percent of Typical Lumen Output
1	25%
2	50%
3	55%
4	65%
5	75%
6	80%
7	85%
8	90%
9	95%
10	100%

Note: Typical value accuracy +/- 5%

Automatic Profile Dimming (CS/CM): Standard dimming profile provides flexibility towards energy savings goals while optimizing light levels during specific dark hours. Dimming profiles include two dimming settings including dim to 30% or 50% of the total lumen output Automatic dimming profile scheduled with the following settings:

- **CS50/CS30:** Security for 7 hours night duration (Ex., 11 PM – 6 AM)
- **CM50/CM30:** Median for 8 hours night duration (Ex., 10 PM – 6 AM)

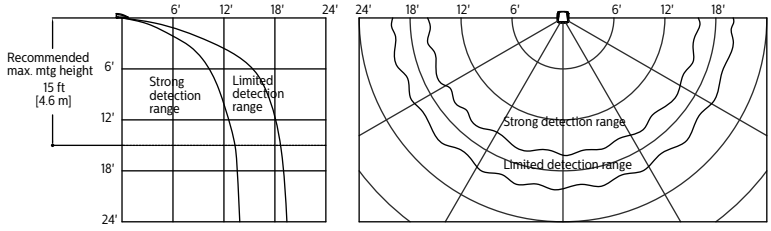
All above profiles are calculated from mid point of the night. Dimming is set for 6 hours after the mid point and 2, or 3 hours before depending of the duration of dimming. Cannot be used with other dimming control options.

Emergency Battery Backup Cold Pack (EBP/EBPC): Emergency battery packs included integral to the luminaire, allowing for a consistent look between emergency and non-emergency luminaires. A separate surface mount accessory box is not required. EBP is suitable for use in ambient temperature conditions from 0°C (32°F) to 40°C (100°F) available on 450mA and 650mA only. EBPC cold weather rated down to -20°C (-4°F) available on all wattage except the 2100mA configuration. Both systems are designed to have a secondary driver with relay to immediately detect AC power loss to power luminaire for a minimum of 90 minutes from the time power is lost. Available with 120-277V, or 'UNV' only.

Wireless system (LLC): Optional wireless controller integral to luminaire ready to be connected to a Limelight system (sold by others). The system allows you to wirelessly manage the entire site, independent lighting groups or individual luminaires while on-site or remotely. Based on a high-density mesh network with an easy to use web-based portal, you can conveniently access, monitor and manage your lighting network remotely. Wireless controls can be combined with site and area, pedestrian, and parking garage luminaires as well, for a completely connected outdoor solution. Motion response capability can be installed in other luminaires in the mesh or on a remote pod accessory where pod is mounted to pole or wall.

Motion response options

Bi-Level Infrared Motion Response (BL-MMRI): High frequency (5.8GHz +/- 75MHz microwave ISM wave band with <0.5 mW transmitting power) motion sensor is mounted integral to the luminaire. This bi-level motion sensor is designed to detect motion through the light engine so it can be used inside the luminaire without any protruded components. Sensor allows energy savings and meeting code requirements without compromising comfort and aesthetics. The product comes with factory pre-programmed standard settings including a dimming level of 30%, hold time of 3 minutes with no stand-by period. This means that in operations, the sensor will keep the luminaire at 30% of total lumen output and when motion is detected, the luminaire returns to 100% output. It will remain on full power for 3 minutes default prior to dimming back to low when no motion is observed. Other dimming levels, holding times, and stand-by periods are possible. Please contact factory technical support for details.



PWS PureForm LED wall sconce

wall mount - with Comfort Optics

Specifications (cont'd)

Electrical

Driver: Driver efficiency (>90% standard). 120-480V available (restrictions apply). Open/short circuit protection. Optional 0-10V dimming to 10% power. RoHS compliant.

Button Photocontrol (PCB): Button style design for internal luminaires mounting applications. The photocontrol is constructed of a high impact UV stabilized polycarbonate housing. Rated voltage of 120V or 208-277V with a load rating of 1000 VA. The photocell will turn on with 1-4Fc of ambient light.

Surge protection (SP1/SP2): Each luminaire is provided as standard with surge protector tested in accordance with ANSI/IEEE C62.45 per ANSI/IEEE C62.41.2 Scenario I Category C High Exposure 10kV/5kA waveforms for Line Ground, Line Neutral and Neutral Ground, and in accordance with U.S. DOE (Department of Energy) MSSLC (Municipal Solid-State Street Lighting Consortium) Model Specification for LED Roadway Luminaires Appendix D Electrical Immunity High Test Level 10kV / 5kA. Optional 20kV is available for additional protection.

Listings

UL/cUL listed to the UL 1598 standard, suitable for wet locations when mounted downward facing. Also listed for damp locations when inverted upward facing when mounted in covered ceiling application. Suitable for use in ambient temperatures from -40° to 40°C (-40° to 104°F). Most PureForm PWS configurations are qualified under Standard DesignLights Consortium® category. Consult DLC Qualified Products list for more details. CCTs 3000K and warmer are IDA Dark Dky Approved.

Finish

Each standard color luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) textured polyester powdercoat finish. The surface treatment achieves a minimum of 1000 hours for salt spray resistant finish in accordance with testing performed and per ASTM B117 standard. Standard colors include bronze (BZ), black (BK), white (WH), dark gray (DGY), and medium gray (MGY). Consult factory for specs on optional or custom colors.

Warranty

PureForm luminaires feature a 5-year limited warranty.
See signify.com/warranties for complete details and exclusions.

Buy American Act of 1933 (BAA):

This product is manufactured in one of our US factories and, as of the date of this document, this product was considered a commercially available off-the-shelf (COTS) item meeting the requirements of the BAA. This BAA designation hereunder does not address (i) the applicability of, or availability of a waiver under, the Trade Agreements Act, or (ii) the "Buy America" domestic content requirements imposed on states, localities, and other non-federal entities as a condition of receiving funds administered by the Department of Transportation or other federal agencies. Prior to ordering, please visit www.signify.com/baa to view a current list of BAA-compliant products to confirm this product's current compliance.

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