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LIGHTING FIXTURE
PART 1 - GENERAL
1.1 CONTRACT DOCUMENTS
A. ALL WORK THIS SECTION SHALL COMPLY WITH THE REQUIREMENTS OF THE CONDITION OF THE CONTRACT (GENERAL, SUPPLEMENTARY AND SPECIAL), WITH ALL SECTION OF DIVISION I - GENERAL REQUIREMENTS, WITH THE DRAWINGS AND ALL OTHER CONTRACT DOCUMENTS.

1.2 WORK INCLUDED
A. FURNISH AND INSTALL A LIGHTING FIXTURE OF THE TYPE INDICATED BY LETTER AT EACH LOCATION SHOWN ON THE DRAWINGS.
B. ALL MATERIALS, ACCESSORIES AND ANY OTHER EQUIPMENTS NECESSARY FOR THE COMPLETE AND PROPER INSTALLATION OF ALL LIGHTING FIXTURE INCLUDED IN THIS CONTRACT SHALL BE FURNISHED BY THE CONTRACTOR.
C. FIXTURES SHALL BE MANUFACTURED IN STRICT CONFORMANCE WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS.
D. SPECIFICATIONS AND DRAWINGS ARE INTENDED TO CONVEY THE SALIENT FEATURES, FUNCTION AND CHARACTER OF THE FIXTURES ONLY AND DO NOT UNDERTAKE TO ILLUSTRATE OR SET FORTH EVERY ITEM OR DETAIL NECESSARY OF THE WORK.
E. MINOR DETAILS, NOT USUALLY INDICATED ON THE DRAWINGS NOR SPECIFIED, BUT THAT ARE NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE FIXTURES, SHALL BE INCLUDED, THE SAME AS IF THEY WERE HEREIN SPECIFIED OR INDICATED ON THE DRAWINGS.
F. THE OWNER SHALL NOT BE HELD RESPONSIBLE FOR THE OMISSION OF ANY DETAIL, CONTRACTION FEATURE, ETC., WHICH MAY BE REQUIRED IN THE PRODUCTION OF THE FIXTURES. THE RESPONSIBILITY OF THE ACCURATELY FABRICATING THE FIXTURES TO THE FULFILLMENT OF THIS SPECIFICATION RESTS WITH THE CONTRACTOR.

1.3 RELATED WORK SPECIFIED ELSEWHERE
A. RELATED SECTIONS OF ELECTRICAL WORK (REFER SECTIONS OF DIVISION 16)
1. WIRES AND CABLES
2. OUTLET BOXES

1.4 SUBMITTALS
A. PROVIDE BOTH A COMPLETE FURNISH AND INSTALL PRICE AS PER 1.2.A ABOVE AND UNIT MATERIAL PRICES FOR ALL FIXTURE TYPES IN THE FOLLOWING SCHEDULE. ALL SUBMITTALS WHICH PROPOSE COST REDUCTION ALTERNATIVE OR VALUE ENGINEERING SHALL BE SUBMITTED WITHIN THE TIME FRAME FOR THE SPECIFIED MANUFACTURER, THE SPECIFIED EQUAL MANUFACTURER AND THE PROPOSED ALTERNATE OF CHANGE.
B. SUBMIT SHOP DRAWINGS, SAMPLES AND PROTOTYPES AS SPECIFICALLY INSTRUCTED BELOW. SHOP DRAWINGS SHALL INCLUDE BUT NOT LIMITED TO:
1. MANUFACTURER'S DIMENSIONED SCALE DRAWINGS IN CLASS THICK PAPER THE FABRICATION OF ALL LIGHTING FIXTURE INCLUDING OVERALL AND DETAIL DIMENSIONS, FINISHES, METAL THICKNESS, GLASS THICKNESS, TYPE, FABRICATION METHODS, SUPPORT METHOD, BALLASTS, TRANSFORMERS, SOCKETS, TYPES OF SHIELDING, REFLECTORS, TRIMS, HINGS, GASKETS, PREVISIONS FOR RE-LAMPING AND ALL OTHER INFORMATION TO SHOW COMPLIANCE WITH THE CONTRACT DOCUMENTS.
2. INSTALLATION INSTRUCTIONS.
3. REPORTS INCLUDING PHOTOMETRIC DATA RENDERED BY AN INDEPENDENT TESTING LABORATORY DEVELOPED ACCORDING TO THE REQUIREMENTS OF THE ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA.
4. MAINTENANCE AND OPERATING INSTRUCTIONS INCLUDING TOOLS REQUIRED, TYPES OF CLEANERS TO BE USED, REPLACEMENT PARTS IDENTIFICATION LIST AND FINAL AS-BUILT SHOP DRAWINGS.
5. REVISED SUBMITTALS CLEARLY INDICATE THE SHOP DRAWINGS AND THE NAME OF THE PROJECT, ARCHITECT AND LIGHTING CONSULTANTS.
D. SAMPLES:
1. SAMPLES MAYBE REQUIRED FOR ANY OR ALL OF THE FIXTURES SPECIFIED HEREIN, AND ARE REQUIRED FOR ALL FIXTURES DESIGNED WITH A COMPLETELY NEW OR "CUSTOM FIXTURES".
2. SUBMIT FOR APPROVAL SAMPLES CALLED FOR TO THE LIGHTING CONSULTANT WHEN AND WHERE DIRECTED, THE COMPONENTS TAGGED WITH THE NAME OF THE PROJECT, AND PROVIDED WITH A CORD AND PLUG AND SPECIFIED LAMPS. SAMPLES WILL NOT TO BE RETURNED, ALLOW THREE WEEKS FROM THE DATE OF RECEIPT FOR THOROUGH EXAMINATION AND REVIEW BY THE
3. FIXTURES UNDER CONTRACT SHALL BE IDENTICAL WITH THE APPROVED SAMPLE FIXTURE. NO FIXTURE USED AS A SAMPLE WILL BE ALLOWED TO BE INSTALLED ON THE PROJECTS.
4. IN THE EVENT THE SUBMISSIONS ARE DISAPPROVED, THE FIXTURES WILL BE RETURNED TO THE CONTRACTOR TO IMMEDIATELY MAKE A NEW SUBMITTING OF FIXTURES OR FIXTURES MEETING THE CONTRACT REQUIREMENTS.
5. ALL CHARGES OF THESE SHIPMENTS ARE TO BE PREPAID BY THE CONTRACTOR.
E. SUBMITTALS SHALL BE SUBMITTED WITH A COMPLETE SET OF DRAWINGS AND A SUBMISSION OF MATERIAL FINISH SAMPLES, COMPONENT APPROVAL AND A COMPLETE OPERATING PROTOTYPE FIXTURE TO BE REVIEWED AT THE FABRICATOR'S SHOP PRIOR TO SHIPMENT OF ANY MATERIAL TO THE PROJECT.
F. SHOP DRAWINGS FOR ALL LIGHTING FIXTURES SHALL BE RECEIVED NO LATER THAN 60 DAYS AFTER AWARD OF CONTRACT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING APPROVALS AND ALLOW TIMELY DELIVERY TO THE PROJECT SITE.
G. SHOP DRAWINGS AND SAMPLES REQUESTED SUBMITTED FOR APPROVAL BEFORE FABRICATION, ANY MATERIAL PRODUCED PRIOR TO THE APPROVAL OF SHOP DRAWINGS OR SAMPLES, AND NOT IN CONFORMANCE WITH THE CONTRACT DOCUMENTS, SHALL BE DISAPPROVED WITH THE CONTRACTOR BEARING FULL RESPONSIBILITY AND COST.
H. WHEN REQUESTED AND REQUESTED BY THE LIGHTING CONSULTANT, SAMPLES SUBMITTED AS PER ABOVE SHALL BE SUBJECTED TO PHOTOMETRIC, THERMAL, MECHANICAL OR WATER TESTING AT AN INDEPENDENT TEST LABORATORY, AT NO EXPENSE TO THE OWNER.
I. NO VARIATION FROM THE GENERAL ARRANGEMENT AND DETAILS INDICATED ON THE DRAWINGS SHALL BE MADE ON THE SHOP DRAWINGS UNLESS REQUIRED TO SUIT THE ACTUAL CONDITIONS ON THE PREMISES, AND THEN ONLY WITH THE WRITTEN ACCEPTANCE OF THE ARCHITECT. ALL VARIATIONS MUST BE CLEARLY MARKED AS SUCH ON THE DRAWINGS SUBMITTAL FOR APPROVAL.

1.5 QUALITY ASSURANCE
A. MATERIALS, EQUIPMENT AND APPURTENANCES AS WELL AS WORKMANSHIP PROVIDED UNDER THIS SECTION SHALL CONFORM TO THE HIGHEST COMMERCIAL STANDARDS, AND AS SPECIFIED AND AS INDICATED ON DRAWINGS. FIXTURE PARTS AND COMPONENTS NOT SPECIALLY DESIGNATED ARE INDICATED SHALL BE MADE OF MATERIALS MOST APPROPRIATE TO THEIR USE OR FUNCTION AND AS SUCH RESIST TO CORROSION AND THERMAL AND MECHANICAL STRESS ENCOUNTERED IN THE NORMAL APPLICATION AND FUNCTION OF THE FIXTURE.
B. ALL FIXTURES SHALL BE MANUFACTURED TO A CONSISTENT LEVEL OF QUALITY, SIZE, COLOR AND COMPONENT PARTS SHALL BE IDENTICAL FOR ALL FIXTURES.

1.6 REFERENCES STANDARDS
A. ALL FIXTURES SHALL MEET LOCAL CODES, REGULATIONS AND BUILDING INSPECTION STANDARDS.
B. ALL FIXTURES AND COMPONENTS SHALL BE MADE IN ACCORDANCE WITH THE LOCALLY ADOPTED NATIONAL STANDARDS SUCH AS NATIONAL ELECTRICAL CODE (N.E.C.), OR INTERNATIONAL EQUIVALENT, AND BEAR THE LABEL OF AN INDEPENDENT TEST LAB SUCH AS UNDERWRITER'S LABORATORIES (U.L.) OF FACTORY MUTUAL LABEL OR EQUIVALENT.
C. ALL FIXTURES INSTALLED SHALL BE TESTED AND CERTIFIED FOR USE AND FOR INSTALLATION IN THEIR SPECIFIC LOCATIONS. EACH FIXTURE IN A POSITION CONCEALING IT FROM NORMAL VIEW.
D. THE FIXTURES AND SHOP DRAWINGS SHALL COMPLY WITH LOCAL CODES, REGULATIONS AND BUILDING INSPECTION STANDARDS. CONTRACTOR TO VERIFY AND PROVIDE ALL REQUIRED LABELS INDICATING COMPLIANCE WITH ABOVE STANDARDS, AFFIXED TO EACH FIXTURE IN A POSITION CONCEALING IT FROM NORMAL VIEW.

1.7 QUALIFICATION OF BIDDERS
A. MANUFACTURERS LISTED IN THE FIXTURE SCHEDULE SHALL BE ASSUMED CAPABLE OF SUPPLYING THE LISTED FIXTURES UNLESS EXCEPTIONS ARE SET FORTH IN THEIR QUOTATIONS. ANY SUCH EXPECTATIONS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND LIGHTING CONSULTANT. MANUFACTURERS NOT LISTED MUST BE PRE-QUALIFIED TO BID AS FOLLOWS:
B. MANUFACTURERS SHALL HAVE NOT LESS THAN FIVE YEARS EXPERIENCE IN DESIGN AND MANUFACTURE OF LIGHTING FIXTURES OF THE TYPE AND PERFORMANCE SPECIFIED. IF THESE FIXTURES TO BE COMPLY WITH THE SPECIFICATION REQUIREMENTS, THE CATALOGUE PAGES OR DRAWINGS INDICATING LENGTH OF EXPERIENCE.
C. MANUFACTURER REPRESENTATIVE COMPANY PREPARES "A LIGHTING PACKAGE" WHICH INCLUDES ONLY THE MANUFACTURERS THEY REPRESENT SHALL NOT BE QUALIFIED.
D. IF THE MANUFACTURER REPRESENTATIVE COMPANY FAIL TO SUPPLY UNIT PRICING TO CONTRACTOR SHALL NOT BE QUALIFIED THIS PROJECT.
E. MANUFACTURER SHALL ALSO SUBMIT A PROTOTYPE SAMPLES OF EACH FIXTURE FOR REVIEW BY THE ARCHITECT AND LIGHTING CONSULTANT. PROTOTYPE SAMPLES SHALL BE SUFFICIENTLY DETAILED AND OPERATIONAL TO ALLOW EVALUATION OF COMPLIANCE WITH THE QUALITY FEATURES OF THE SPECIFICATION. PRELIMINARY DESIGN OR SHOP DRAWINGS SHALL NOT BE ACCEPTED IN PLACE OF PROTOTYPE SAMPLES.
F. THE LIGHTING CONSULTANT SHALL BE THE SOLO JUDGE IN DETERMINING WHETHER THE PROTOTYPE SAMPLE COMPLIES WITH THE SPECIFICATIONS AND SHALL RESERVE THE RIGHT TO DISQUALIFY ANY BIDDERS.

1.8 WARRANTY
A. THE CONTRACTORS SHALL WARRANT THE FIXTURE, ITS FINISHED, AND ALL OF ITS COMPONENT PARTS, EXCEPT BALLASTS, TO BE FREE FROM DEFECTS FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE IF OPERATED WITHIN RATED VOLTAGE RANGE. REPLACEMENT OF FAULTY MATERIALS AND THE COST OF LABOR REQUIRED TO MAKE THE REPLACEMENT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. BALLASTS SHALL BE WARRANTED FOR TWO YEARS.

1.9 BASED MANUFACTURERS
A. THE CONTRACTOR SHALL PROVIDE BIDS FOR LIGHTING FIXTURES ON THE MANUFACTURERS LISTED IN THIS SPECIFICATION.
B. EQUAL MANUFACTURER IDENTIFIED BY NAMES AND/OR CATALOG NUMBERS SHALL COMPLY WITH ALL SPECIFICATION DESCRIPTION, DIMENSIONS AND PERFORMANCE STANDARDS. ANY SUBSTITUTIONS MUST MEET OR EXCEED THESE STANDARDS. ALL SUBSTITUTIONS ARE REQUIRED TO PROVIDE PHOTOGRAPHIC QUOTATIONS (POINT BY POINT) OF KEY AREAS DESIGNATED BY THE LIGHTING CONSULTANT TO CONFIRM SUBSTITUTIONS MEET OR EXCEEDED PROJECT LIGHTING PERFORMANCE REQUIREMENT (MAINTAINED FC).
C. QUOTIFICATIONS: WITHIN SIXTY-DAYS OF PLACEMENT OF ORDER, CONTRACTOR MUST FURNISH INDEPENDENT PHOTOMETRIC TESTS OF THE TYPE AND PERFORMANCE SPECIFIED. IF THESE FIXTURES TO BE COMPLY WITH THE SPECIFICATION REQUIREMENTS, THAT TIME, CONTRACTOR WILL FURNISH ACCEPTABLE FIXTURES AT NO ADDITIONAL COST TO THE OWNER, AND WITH NO DELAY TO THE PROJECT.

2.0 BID FORMAT
A. "BUDGETARY NET" PRICING HAS BEEN SECURED FOR ALL PRODUCTS SPECIFIED AND IS USED IN THE PREPARATION OF PRELIMINARY OFFERS OF PROBABLE COST. A RECORD OF SPECIFIC UNIT COSTS HAS BEEN SHARED CONFIDENTIALLY WITH THE OWNER TO ASSIST HIM/HER IN ANALYSIS OF BID SUBMITTALS.
B. CONTRACTOR SHALL SUBMIT UNIT PRICING FOR EACH LIGHTING PRODUCT, ELECTRICAL EQUIPMENT, AND INSTALLATION COST. THE PRICES SHALL BE SUPPLIED SEPARATELY FOR EACH OF THESE FIXTURES TO BE QUOTED FOR THE PROJECT AND VALID FOR ADDITIONS AND DELETIONS OF PRODUCT THROUGHOUT THE DURATION OF THE PROJECT.
C. FOR THE BASE BID PRODUCT(S) LISTED, THE CONTRACTOR IS REQUIRED TO SUPPLY PRICING FOR THE FOLLOWING DEDUCT ALTERNATIVE PRODUCTS. THIS PRICING IS TO BE SUPPLIED IN ADDITION TO THE BASE BID, USING THE CONTRACTOR BID FORM FOR THE DEDUCTIVE PRODUCTS. THE BASE BID MUST INCLUDE THE DEDUCTIVE BASE BID PRODUCT, FAILURE TO DO SO WILL INVALIDATE THE LIGHTING BID SUBMITTAL AND AT THE DISCRETION OF THE OWNER, MAY ELIMINATE THE CONTRACTOR'S BID FORM FUTURE CONSIDERATION.

PART 2 — PRODUCTS
 2.1 MATERIALS
 AS SPECIFIED.
 2.2 FABRICATION
 NOT APPLY FOR THE PROJECT.
 2.3 FINISHES
 AS SPECIFIED.
 2.4 WIRING
 NOT APPLY FOR THE PROJECT.
 2.5 MAKING OF FIXTURES
 NOT APPLY FOR THE PROJECT.
 2.6 SOUND TRANSMISSION
 NOT APPLY FOR THE PROJECT.
 2.7 THERMAL PROTECTION
 AS SPECIFIED.
 2.8 LAMPS
 AS SPECIFIED.
 2.9 LAMP HOLDERS
 AS SPECIFIED.
 2.10 FLUORESCENT AND HIGH INTENSITY DISCHARGE LAMP BALLASTS
 NOT APPLY FOR THE PROJECT.
 2.11 TRANSFORMERS
 AS SPECIFIED.
 2.12 LENS
 AS SPECIFIED.
 2.13 REFLECTOR
 AS SPECIFIED.
 2.14 LOUVER
 AS SPECIFIED.
 2.15 FIXTURE TRIM
 AS SPECIFIED.

PART 3 — EXECUTION
 3.1 INSTALLATION
 A. INSTALLATION ALL LIGHTING FIXTURES AS PER CODE REQUIREMENTS INCLUDING SEISMIC, WIND, OR DEAD LOAD SUPPORT, WATER PROOFING, AND/OR MOUNTING HEIGHTS ABOVE GRADE OR WATER, WITH CORRECT BRANCH CIRCUIT SUPPLY VOLTAGE AS PER THE CONTRACT DRAWINGS ELECTRICAL PLANS AND THE REQUIRED BALLAST OR LAMP OPERATING VOLTAGE.
 B. CONTRACTOR TO COORDINATE EXACT QUANTITIES AND CRITICAL DIMENSIONS WITH FIELD CONDITIONS (INCLUDING LENGTHS OF CONTINUOUS LIGHT COVERS OR WALL MOUNTED BRACKETS).
 C. CONTRACTOR TO VERIFY AND COORDINATE THAT APPROPRIATE FRAMING, SUPPORT STRUCTURES, MOUNTING BRACKET AND OTHER REQUIRED STRUCTURAL CONNECTIONS ARE PROVIDED BY THE GENERAL CONTRACTOR OR OTHER TRADES TO INSURE A TIMELY, NEAT INSTALLATION OF ALL LUMINAIRES.
 D. CONTRACTOR TO COORDINATE AND PROVIDE ANY ASSOCIATED MOUNTING HARDWARE, CONDUIT CONNECTIONS, OR ASSOCIATED APPURTENANCES TO EFFECTIVELY INSTALL THE LUMINAIRES. PROVIDE EACH LIGHT FIXTURE WITH COMPLETE INSTALLATION INSTRUCTIONS. ALL LIGHT FIXTURES TO BE INSTALLED IN STRICT CONFORMANCE WITH MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS.
 E. EXACT LOCATIONS OF ALL LIGHTING FIXTURES INCLUDING MOUNTING HEIGHTS AND PLAN DIMENSIONS ARE AS PER THE ARCHITECTURAL DRAWINGS. ANY AMBIGUITIES OR CONFLICTS IN THIS DIMENSIONAL INFORMATION TO BE IDENTIFIED TO THE ARCHITECT PRIOR TO INSTALLATION. NOTIFY THE LIGHTING CONSULTANT IN WRITING WHEN ALL ROUGH IN ELECTRICAL IS COMPLETED AND READY FOR APPROVAL AND INSPECTION FOR ALL WALL BRACKETS MOUNTED TO STONE OR BRICK VENEER WALLS, OR PENDANTS MOUNTED IN WOOD OR METAL CEILING.
 F. RIGIDLY ALIGN ALL CONTINUOUS ROWS OF FIXTURES FOR TUNE IN-LINE APPEARANCE.
 G. DO NOT INSTALLED EXPOSED FIXTURES, REFLECTORS OR TRIMS UNTIL ALL PLASTERING AND PAINTING THAT MAY MAR FIXTURE FINISH IS COMPLETED. REPLACE BLEMISHED, DENTED, DAMAGED OR UNSATISFACTORY FIXTURES AS DIRECTED.
 H. SUPPORT ALL FIXTURES INDEPENDENT OF DUCTWORK OR PIPING.
 I. INSTALL ALL REFLECTOR TRIMS, DOORS, BASE PLATES, BRACKETS AND OTHER FIXTURE FINISHES FREE OF ANY PLASTER, CONCRETE, PAINT OR OTHER SURFACE MATERIAL. ALL FIXTURE DOORS, TRIMS AND OTHER OPERABLE COMPONENTS ARE TO BE CLEAR OF ANY OTHER FINISHES AND ALLOW FREE MOVEMENT.
 3.2 AIMING AND ADJUSTMENT
 A. ALL ADJUSTABLE LIGHTING UNITS SHALL BE AIMED, FOCUSED, LOCKED, ETC., BY THE CONTRACTOR UNDER THE SUPERVISION OF LIGHTING CONSULTANT. THE CONTRACTOR SHALL PROVIDE ADEQUATE CREWS (FORMAN AND APPRENTICE) AS REQUIRED COMPLETING A AIMING WITH ONE EVENING. IN MORE TIME REQUIRED THE CONTRACTOR SHALL COMPLETE THE AIMING AS PER THE LIGHTING CONSULTANT'S PUNCH LIST. ALL AIMING AND ADJUSTING SHALL BE CARRIED OUT AFTER THE INSTALLATION IS COMPLETED. ALL LADERS, SCAFFOLDS, ETC. REQUIRED SHALL BE FURNISHED BY THE CONTRACTOR. AS AIMING AND ADJUSTING IS COMPLETED, LOCKING SETSCREWS AND BOLTS AND NUTS SHALL BE TIGHTENED SECURELY.
 B. WHERE POSSIBLE, UNITS SHALL BE FOCUSED DURING THE NORMAL WORKING DAY. HOWEVER, WHERE DAYLIGHT INTERFERS WITH VISIBILITY, AIMING SHALL BE ACCOMPLISHED AT NIGHT.
 3.3 CLEANUP
 A. AT THE TIME OF FINAL ACCEPTANCE BY THE OWNER, ALL LIGHTING FIXTURES SHALL HAVE BEEN THOROUGHLY CLEANED WITH MATERIALS AND METHODS RECOMMENDED BY THE MANUFACTURERS, ALL BROKEN PARTS SHALL HAVE BEEN REPLACED, AND ALL LADDER, SCAFFOLD, ETC. REQUIRED SHALL BE FURNISHED BY THE CONTRACTOR TO PLASTER OR SANDING DUST OR PAINT SHALL BE REPLACED BY THE CONTRACTOR WITH NEW LAMPS.

LIGHTING CONTROL
 PART 1 — GENERAL
 1.1 SUMMARY
 A. THE WORK COVERED BY THIS SECTION OF THE SPECIFICATIONS INCLUDES THE FURNISHING OF ALL LABOR, MATERIALS AND PERFORMANCE OF ALL OPERATIONS IN CONNECTION WITH THE ALTERATIONS TO THE PROJECT LIGHTING CONTROL SYSTEM AS SHOWN ON THE DRAWINGS AS HEREIN SPECIFIED.
 B. THE REQUIREMENTS OF CONDITIONS OF THE CONTRACT SUPPLEMENTARY CONDITIONS AND GENERAL REQUIREMENTS APPLY TO THE CONTRACT.
 C. THE WORK COVERED BY THIS SECTION OF THE SPECIFICATIONS SHALL BE COORDINATED WITH THE RELATED WORK AS SPECIFIED.
 D. COMPLETE "RECORD DRAWINGS" SHALL BE FURNISHED BY THE CONTRACTOR TO AID STARTUP. IF SOME CHANGES HAVE BEEN MADE FROM THE ORIGINAL DRAWINGS, THESE SHOULD INDICATE THE LOAD CONTROLLED BY EACH RELAY AND THE IDENTIFICATION NUMBER FOR THAT RELAY. THEY SHOULD ALSO IDENTIFY THE PHYSICAL LOCATION OF EACH SWITCH CONNECTED TO AN INPUT AND THE IDENTIFICATION NUMBER OF THAT INPUT.
 E. STARTUP SHALL BE EXECUTED BY THE MANUFACTURER CERTIFIED CONTRACTOR OR MANUFACTURE FIELD TECHNICIAN.
 F. AFTER THE SYSTEM STARTUP, THE CONTRACTOR OR TECHNICIAN SHALL ARRANGE A STRANDING SESSION WITH THE OWNER. REVISIONS SHALL BE TO THE SYSTEM IF REQUIRED.

1.2 QUALITY ASSURANCE
 A. ALL COMPONENTS AND ASSEMBLIES ARE TO BE PRE-TESTED AND BURNED-IN PRIOR TO INSTALLATION.
 B. THE CONTRACTOR SHALL FUNCTIONALLY TEST EACH COMPONENT IN THE SYSTEM AFTER INSTALLATION TO PROPER OPERATION AND CONFIRM THAT THE PANEL WIRING AND ADDRESSING CONFORM TO THE WIRING DOCUMENTATION.
 C. COMPLY TO NEC AS APPLICABLE TO ELECTRICAL WIRING WORK.
 D. COMPLY WITH APPLICABLE PORTIONS OF NEW STANDARDS PERTAINING TO TYPE OF ELECTRICAL EQUIPMENT ENCLOSURES.
 E. UL APPROVALS: LOW VOLTAGE REMOTE LIGHTING CONTROL SYSTEMS ARE TO BE UL LISTED.

1.3 WARRANTY
 A. THE CONTRACTORS SHALL WARRANT THE LIGHTING CONTROL SYSTEM, ITS FINISHED, AND ALL OF ITS COMPONENT PARTS TO BE FREE FROM DEFECTS FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE IF OPERATED WITHIN RATED VOLTAGE RANGE. REPLACEMENT OF FAULTY MATERIALS AND THE COST OF LABOR REQUIRED TO MAKE THE REPLACEMENT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

2.1 MATERIALS AND COMPONENTS
 LUTRON MAESTRO WALL MOUNTED SWITCH (SINGLE-POLE, 3-WAY & 4 WAY) AND VACANCY/OCCUPANCY SWITCH DIMMER IS OWNER-SPECIFY. AKAU LIGHTING DESIGN IS ONLY RESPONSIBLE TO SHOW ITS LOCATION.

3.1 INSTALLATION
 A. THE LIGHTING CONTROL SYSTEM SHALL BE INSTALLED AND WIRED AS SHOWN IN THE CONTRACT DOCUMENT. AFTER ROUGH-IN, THE CONTRACTOR SHALL CONTACT THE MANUFACTURE FIELD TECHNICIAN TO VERIFY ALL MATERIALS, COMPONENTS AND LOCATIONS.
 B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE IDENTIFICATION OF EACH SWITCH AND RELAY. IF SOME CHANGES HAVE BEEN MADE FROM THE ORIGINAL DRAWINGS, THESE SHOULD INDICATE THE LOAD CONTROLLED BY EACH RELAY AND THE IDENTIFICATION NUMBER FOR THAT RELAY. THEY SHOULD ALSO IDENTIFY THE PHYSICAL LOCATION OF EACH SWITCH CONNECTED TO AN INPUT AND THE IDENTIFICATION NUMBER OF THAT INPUT.
 C. STARTUP SHALL BE EXECUTED BY THE MANUFACTURER CERTIFIED CONTRACTOR OR MANUFACTURE FIELD TECHNICIAN.
 D. AFTER THE SYSTEM STARTUP, THE CONTRACTOR OR TECHNICIAN SHALL ARRANGE A STRANDING SESSION WITH THE OWNER. REVISIONS SHALL BE TO THE SYSTEM IF REQUIRED.

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5TH & GOLDWATER

**WOOD PARTNERS
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Date
April 10, 2025 - DRB

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LIGHTING SPECIFICATIONS

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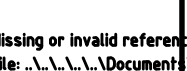
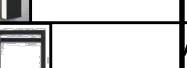
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LIGHTING
SYMBLES

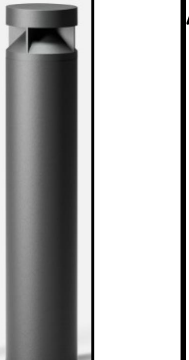
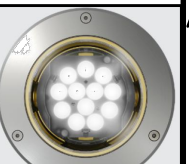
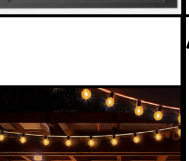
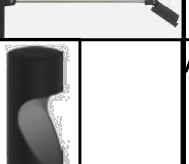
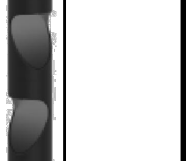
SYMBOLS:

LIGHTING FIXTURES		ELECTRICAL FIXTURES	
	ROUND ADJUSTABLE DOWNLIGHT		SINGLE POLE SWITCH
	ROUND DOWNLIGHT		3-WAY SWITCH
	SQUARE ADJUSTABLE DOWNLIGHT		4-WAY SWITCH
	SQUARE DOWNLIGHT		SINGLE POLE DIMMER SWITCH
	2-HEAD SQUARE ADJUSTABLE DOWNLIGHT		3-WAY DIMMER SWITCH
	3-HEAD SQUARE ADJUSTABLE DOWNLIGHT		OCCUPANCY SENSOR SWITCH
	COVE LIGHT, STEPLIGHT, UNDER CABINET LIGHT		VACANCY SENSOR SWITCH
	DECORATIVE PENDANT		DOOR SWITCH
	DECORATIVE WALL SCONCE		LIGHTING CONTROL KEYPAD (WALL MOUNT)
	STEPLIGHT		
	UPLIGHT		
	SPOTLIGHT		
	LINEAR UPLIGHT		
	CIRCLE SURFACE MOUNTED		DAYLIGHT SENSOR (CEILING MOUNT)
	SQUARE SURFACE MOUNTED		DAYLIGHT SENSOR (WALL MOUNT)
	LINEAR SURFACE MOUNTED		OCCUPANCY/VACANCY SENSOR (CEILING MOUNT)
	REMOTE DRIVER		ACR 120V GFCI AIR CONDITIONING RECEP
			REFR 120V REFRIGERATOR RECEP
			MWR 120V MICROWAVE RECEP
			DWR 120V DISHWASHER RECEP
			220R 220V 220 RECEP
			GFCI 120V
			GFCI 120V LANDSCAPE RECEP
			TVR TELEVISION RECEP
			PR TELEPHONE RECEP
			CNR COMPUTER NETWORK RECEP
			GDO GARAGE DOOR OPENER
			GDOC GARAGE DOOR OPENER CONTROLLER
			DB DOOR BELL
			CHIME DOOR CHIME
			DIS DISCONNECT SWITCH
			NGR NATURAL GAS RECEP
			SD SMOKE DETECTOR
			J BOX
			FAN-EX EXHAUST FAN
			CEILING FAN

LUMINAIRE SCHEDULE:

ORDINANCE COMPLIANCE /IMAGE	MARK	MANUFACTURER	CATALOG NUMBER	DISCRIPTION	LAMP	VOLT-AGE	LOAD TYPE	MOUNTING	REMARK
	AA-1	ACULUX/ACUITY BRANDS LIGHTING	AX3LPD-G4-12LM-30K-90CRI-30D-ECOD-MVOLT-ICAT-3DBV-BD-X-SOLITE200	3" DIA. BEVEL ROUND DOWNLIGHT	11W, 1,123LM, 3,000K, 90CRI	120	LED (DIM)	CEILING RECESS MOUNT	LUMINAIRE FINISH AND NECESSARY ACCESSORIES SHALL BE VERIFIED PRIOR TO ORDERING.
			LUTRON ECO SYSTEM-1%						
	AA-4	ACULUX/ACUITY BRANDS LIGHTING	AX3LPD-G4-20LM-30K-90CRI-30D-ECOD-MVOLT-ICAT-3DBV-BD-X-SOLITE200	3" DIA. BEVEL ROUND DOWNLIGHT	20W, 2,000LM, 3,000K, 90CRI	120	LED (DIM)	CEILING RECESS MOUNT	LUMINAIRE FINISH AND NECESSARY ACCESSORIES SHALL BE VERIFIED PRIOR TO ORDERING.
			LUTRON ECO SYSTEM-1%						
	AA-8	PRUDENTIAL	BPRO2-REC-FLSH-LED30-LO-R20-TMW-BTW-LP-SO-UNV-X-LDE1-X-X-X-X	1-1/2" APERTURE RECESSED LINEAR	3.8W/FT, 410LM/FT, 3,000K, 90CRI	UNV (120-277)	LED (DIM)	CEILING RECESS MOUNT	LUMINAIRE FINISH AND NECESSARY ACCESSORIES SHALL BE VERIFIED PRIOR TO ORDERING.
	AA-9	WAC LIGHTING	FM-4615-3,000K-X-30W-2,355LM-1,571LM (DELIVERED)	15" DIA. CEILING MOUNT	30W, 1,571LM, 3,000K, 90CRI	UNV (120-277)	LED (DIM)	CEILING RECESS MOUNT	LUMINAIRE FINISH AND NECESSARY ACCESSORIES SHALL BE VERIFIED PRIOR TO ORDERING.
			ELV: 100-10% DIM						
	AA-10	WAC LIGHTING	TAPE SECTION: LED-T24-P-85-200-X-W-3 LED "A" CONNECTOR: LED-T24-P-85-50-3LWT DRIVER: EN-24XXX-RB2-T CHANNEL: LED-T-CH5	LINEAR UNDER CABINET LIGHT	3W/FT, 200LM/FT, 3,000K, 85CRI	24	LED (DIM)	CABINET SURFACE MOUNT	LUMINAIRE FINISH AND NECESSARY ACCESSORIES SHALL BE VERIFIED PRIOR TO ORDERING.
			ELV: 100-10% DIM						
	AA-11	WAC LIGHTING	WS-35819-3,000K-X-17W-1,276LM-787LM (DELIVERED)	19" LINEAR WALL MOUNT	17W, 787LM, 3,000K, 90CRI	UNV (120-277)	LED (DIM)	CEILING RECESS MOUNT	LUMINAIRE FINISH AND NECESSARY ACCESSORIES SHALL BE VERIFIED PRIOR TO ORDERING.
			ELV: 100-10% DIM						
	AA-12	PRUDENTIAL	WING22-LED390-SO-ABW-TMW-SC-UNV-X-LDE1-EMHE	2' X 2' SQUARE RECESSED	38W, 3,400LM, 3,000K, 90CRI	UNV (120-277)	LED (DIM)	CEILING RECESS MOUNT	LUMINAIRE FINISH AND NECESSARY ACCESSORIES SHALL BE VERIFIED PRIOR TO ORDERING.
			LUTRON ECO SYSTEM-1%						
	AA-13	GLOBAL CONCEPT	GC-05-021425-1-DRY 9WLED-120V-30K-X	5" DIA. PUCK LIGHT (DRY)	9W, 700LM, 3,000K, 90CRI	120	LED (DIM)	CEILING SURFACE MOUNT	LUMINAIRE IS OWNER-SPECIFY. AKALI LIGHTING DESIGN IS ONLY RESPONSIBLE TO SHOW ITS LOCATION.
			TRIAC DIMMING						
	AA-14	GLOBAL CONCEPT	GC-05-021425-1-WET 9WLED-120V-30K-X	5" DIA. PUCK LIGHT (WET)	9W, 700LM, 3,000K, 90CRI	120	LED (DIM)	CEILING SURFACE MOUNT	LUMINAIRE IS OWNER-SPECIFY. AKALI LIGHTING DESIGN IS ONLY RESPONSIBLE TO SHOW ITS LOCATION.
			TRIAC DIMMING						
	AE-A	ALVA	SILVER-69-X-3000	69"-LONG LINEAR WALL SCONCE	30W, 879LM, 3,000K, 90CRI	120	LED (DIM)	WALL SURFACE MOUNT	LUMINAIRE FINISH AND NECESSARY ACCESSORIES SHALL BE VERIFIED PRIOR TO ORDERING.
			ELV/TRIAC, 100 - 10% DIMMING						REFER ARCHITECTURAL SET FOR MOUNTING HEIGHT.
	AE-B	ACCESS LIGHTING	BAYSIDE; 20032-LEDMG-BRZ-FST	WALL SCONCE	15W, 590LM, 3,000K, 90CRI	120	LED	WALL SURFACE MOUNT	LUMINAIRE FINISH AND NECESSARY ACCESSORIES SHALL BE VERIFIED PRIOR TO ORDERING.
									REFER ARCHITECTURAL SET FOR MOUNTING HEIGHT.
	AE-C	ALVA	PLATO-24-X-3000 (HORIZONTAL MOUNT)	24"-LONG LINEAR WALL SCONCE	10W, 279LM, 3,000K, 90CRI	120	LED	WALL SURFACE MOUNT	LUMINAIRE FINISH AND NECESSARY ACCESSORIES SHALL BE VERIFIED PRIOR TO ORDERING.
			ELV/MLV DIMMING						REFER ARCHITECTURAL SET FOR MOUNTING HEIGHT.
	AE-D	ALVA	PLATO-24-X-3000	24"-LONG LINEAR WALL SCONCE	10W, 279LM, 3,000K, 90CRI	120	LED (DIM)	WALL SURFACE MOUNT	LUMINAIRE FINISH AND NECESSARY ACCESSORIES SHALL BE VERIFIED PRIOR TO ORDERING.
			ELV/MLV DIMMING						REFER ARCHITECTURAL SET FOR MOUNTING HEIGHT.
	AE-E	WAC LIGHTING	NIGHTVISION: WS-W42016-3000K-X-11W-115LM	UP/DOWN WALL SCONCE	10W, 279LM, 3,000K, 90CRI	120	LED	WALL SURFACE MOUNT	LUMINAIRE FINISH AND NECESSARY ACCESSORIES SHALL BE VERIFIED PRIOR TO ORDERING.
			ELV/MLV DIMMING						REFER ARCHITECTURAL SET FOR MOUNTING HEIGHT.

LUMINAIRE SCHEDULE:

ORDINANCE COMPLIANCE /IMAGE	MARK	MANUFACTURER	CATALOG NUMBER	DISCRIPTION	LAMP	VOLT-AGE	LOAD TYPE	MOUNTING	REMARK
	AE-1	BEGA LIGHTING	B99862-K3-X	BOLLARD	19.8W, 1,286LM, 3,000K, 80CRI	120	LED (DIM)	GROUND RECESS MOUNT	LUMINAIRE FINISH AND NECESSARY ACCESSORIES SHALL BE VERIFIED PRIOR TO ORDERING.
			0-10V DIMMING						
	AE-2	HYDREL/ACUITY BRAND LIGHTING	IGF6-SS-LED-PI-80CRI-30K-MVOLT-30DEG-10T-FLCSR-X-ISS-ZT-C	IN-GRADE LUMINAIRE	11.95W, 1,290LM, 3,000K, 80CRI	120	LED (DIM)	GROUND RECESS MOUNT	LUMINAIRE FINISH AND NECESSARY ACCESSORIES SHALL BE VERIFIED PRIOR TO ORDERING.
			0-10V DIMMING						
	AE-3	BEGA LIGHTING	B24218-K3-X	WALL SCONCE	11W, 898LM, 3,000K, 80CRI	120	LED (DIM)	WALL SURFACE MOUNT	LUMINAIRE FINISH AND NECESSARY ACCESSORIES SHALL BE VERIFIED PRIOR TO ORDERING.
			0-10V DIMMING						THE BOTTOM OF THE LUMINAIRE SHALL BE AT 7'.
	AE-4	BEGA LIGHTING	B33055-K3-X	STEPLIGHT	11W, 480LM, 3,000K, 80CRI	120	LED (DIM)	WALL RECESS MOUNT	LUMINAIRE FINISH AND NECESSARY ACCESSORIES SHALL BE VERIFIED PRIOR TO ORDERING.
			0-10V DIMMING						
	AE-5	TOKI STAR LIGHTING	EXBK-12/FT-UBWW-G19-C EX-MDA-BK T24-300	STRING LIGHT	1.4W/FT, 40LM/FT, 2,400K, XCRI	24	LED (DIM)	BEAM SUSPEND MOUNT	LUMINAIRE FINISH AND NECESSARY ACCESSORIES SHALL BE VERIFIED PRIOR TO ORDERING.
			MLV DIMMING						
	AE-6	BEGA LIGHTING	B24404-K3-X-B19538	STEPLIGHT	12W, 978LM, 3,000K, 80CRI	120	LED (DIM)	CEILING SURFACE MOUNT	LUMINAIRE FINISH AND NECESSARY ACCESSORIES SHALL BE VERIFIED PRIOR TO ORDERING.
			0-10V DIMMING						
	AE-7	BEGA LIGHTING	B77552-K3-X-B548	FLOOD LIGHT	20.4W, 2,456LM, 3,000K, 80CRI	120	LED (DIM)	WALL SURFACE MOUNT	LUMINAIRE FINISH AND NECESSARY ACCESSORIES SHALL BE VERIFIED PRIOR TO ORDERING.
			0-10V DIMMING						
	AE-8	LUMINIS	LN601B-L1L10-LD3-H39-30K-MVOLT-X-X-X-X-X	SINGLE HEAD BOLLARD	20.4W, 2,456LM, 3,000K, 80CRI	120	LED	GROUND RECESS MOUNT	LUMINAIRE FINISH AND NECESSARY ACCESSORIES SHALL BE VERIFIED PRIOR TO ORDERING.
									1. WATERPROOFED POLE CONCRETE BASE SHALL BE RECESSED IN GROUND AND COVERED BY DECOMPOSED GRANITE.
									2. RECESSED CONCRETE BASE SHALL BE ENGINEERED BY STRUCTURAL ENGINEER.
									3. SUBMIT SHOP DRAWING FOR APPROVAL.
	AE-9	LUMINIS	LN602B-L2L20-LD3-H46-30K-MVOLT-X-X-X-X-X	DOUBLE HEAD BOLLARD	46W, 4,286LM, 3,000K, 80CRI	120	LED	GROUND RECESS MOUNT	LUMINAIRE FINISH AND NECESSARY ACCESSORIES SHALL BE VERIFIED PRIOR TO ORDERING.
									1. WATERPROOFED POLE CONCRETE BASE SHALL BE RECESSED IN GROUND AND COVERED BY DECOMPOSED GRANITE.
									2. RECESSED CONCRETE BASE SHALL BE ENGINEERED BY STRUCTURAL ENGINEER.
									3. SUBMIT SHOP DRAWING FOR APPROVAL.
	AE-10	LUMINIS	LN604-L4L20-LD3-LNP696-30K-MVOLT-X-X-X-X-X	QUATRO HEAD POLE TOP	92W, 8,572LM, 3,000K, 80CRI	120	LED	GROUND RECESS MOUNT	LUMINAIRE FINISH AND NECESSARY ACCESSORIES SHALL BE VERIFIED PRIOR TO ORDERING.
									1. WATERPROOFED POLE CONCRETE BASE SHALL BE RECESSED IN GROUND AND COVERED BY DECOMPOSED GRANITE.
									2. RECESSED CONCRETE BASE SHALL BE ENGINEERED BY STRUCTURAL ENGINEER.
									3. SUBMIT SHOP DRAWING FOR APPROVAL.
	AE-11	LITHONIA LIGHTING	WDGE1LED-P1-30K-90CRI-VF-MVOLT-SRM-E4WH-PE-X	WALL PACK	10W, 1,161LM, 3,000K, 90CRI	MVOLT	LED	WALL SURFACE MOUNT	LUMINAIRE FINISH AND NECESSARY ACCESSORIES SHALL BE VERIFIED PRIOR TO ORDERING.
			PHOTOCELL						THE BOTTOM OF THE LUMINAIRE SHALL BE AT 7'.
	AE-11	NOT USED							
	AE-13	BEGA LIGHTING	B24374-K3-X	WALL SCONCE	15W, 1,078LM, 3,000K, 80CRI	120	LED (DIM)	WALL SURFACE MOUNT	LUMINAIRE FINISH AND NECESSARY ACCESSORIES SHALL BE VERIFIED PRIOR TO ORDERING.
			0-10V, TRIAC & ELV DIMMING						THE BOTTOM OF THE LUMINAIRE SHALL BE AT 7'.

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LT-0.3
LUMINAIRE
SCHEDULE

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LIGHTING PLAN - SITE - SECTION A

SCALE: 1/16" = 1'-0"

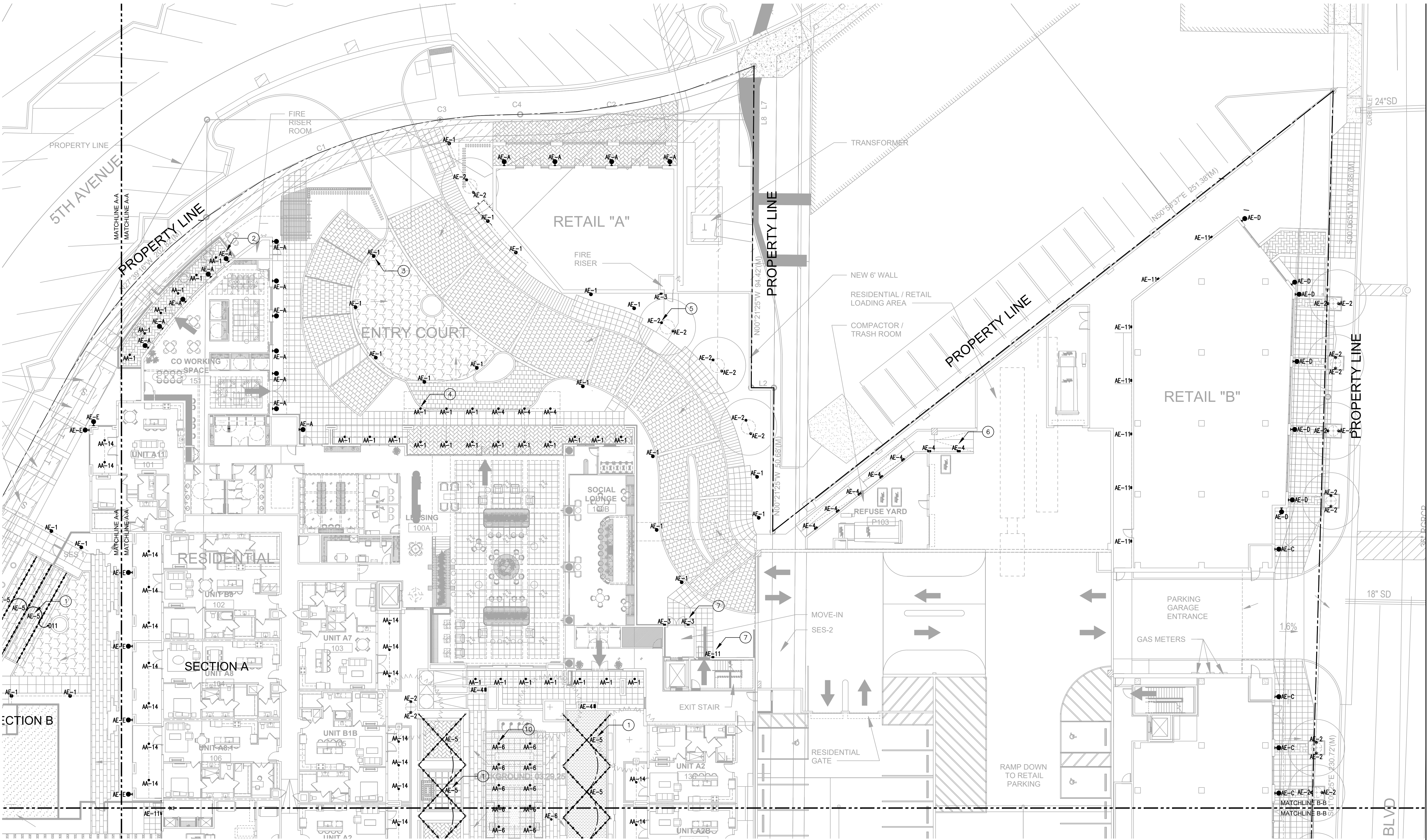
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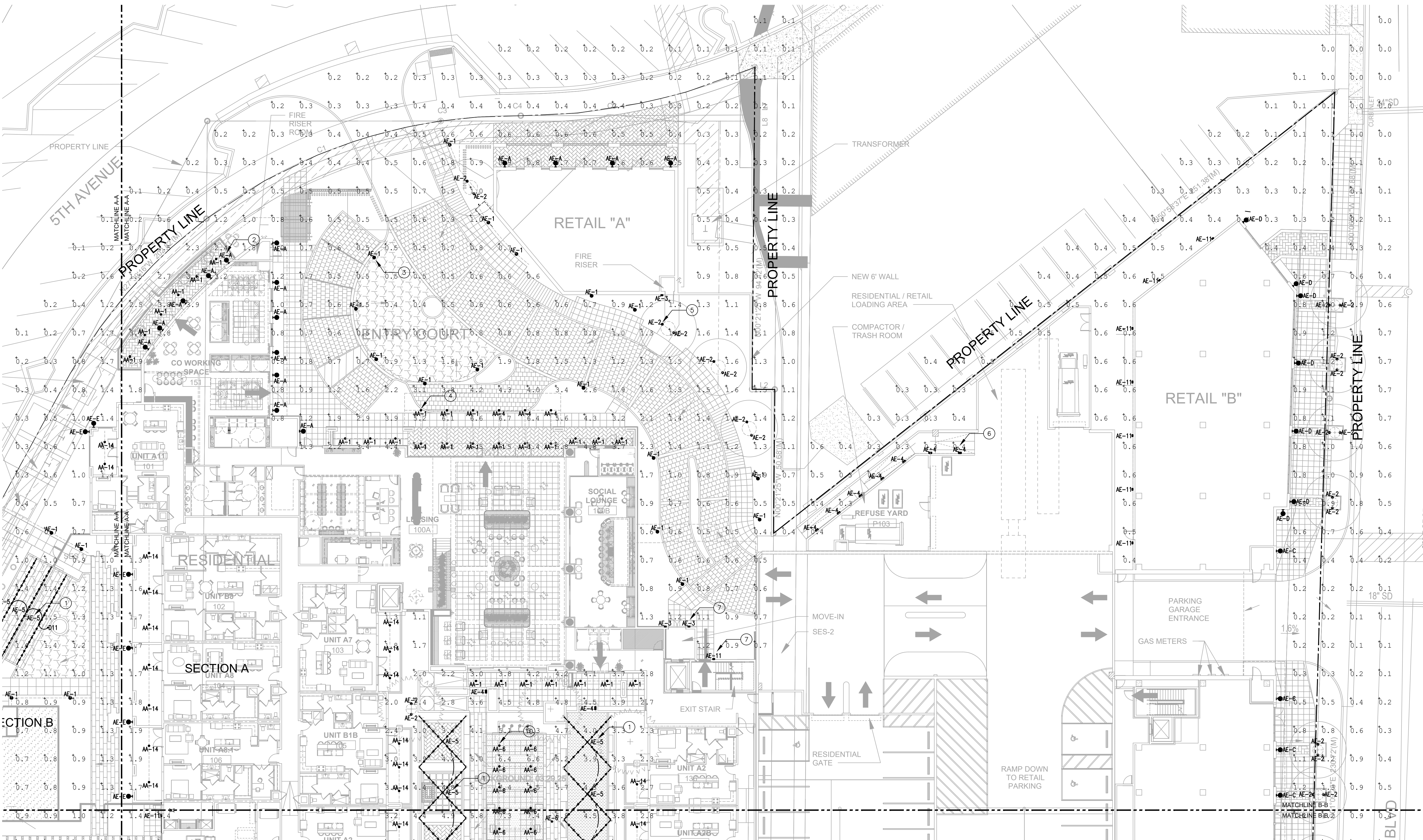
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LT-7.1

SITE
LIGHTING PLAN





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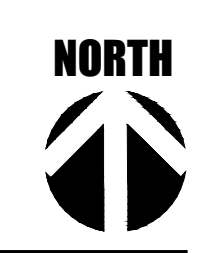
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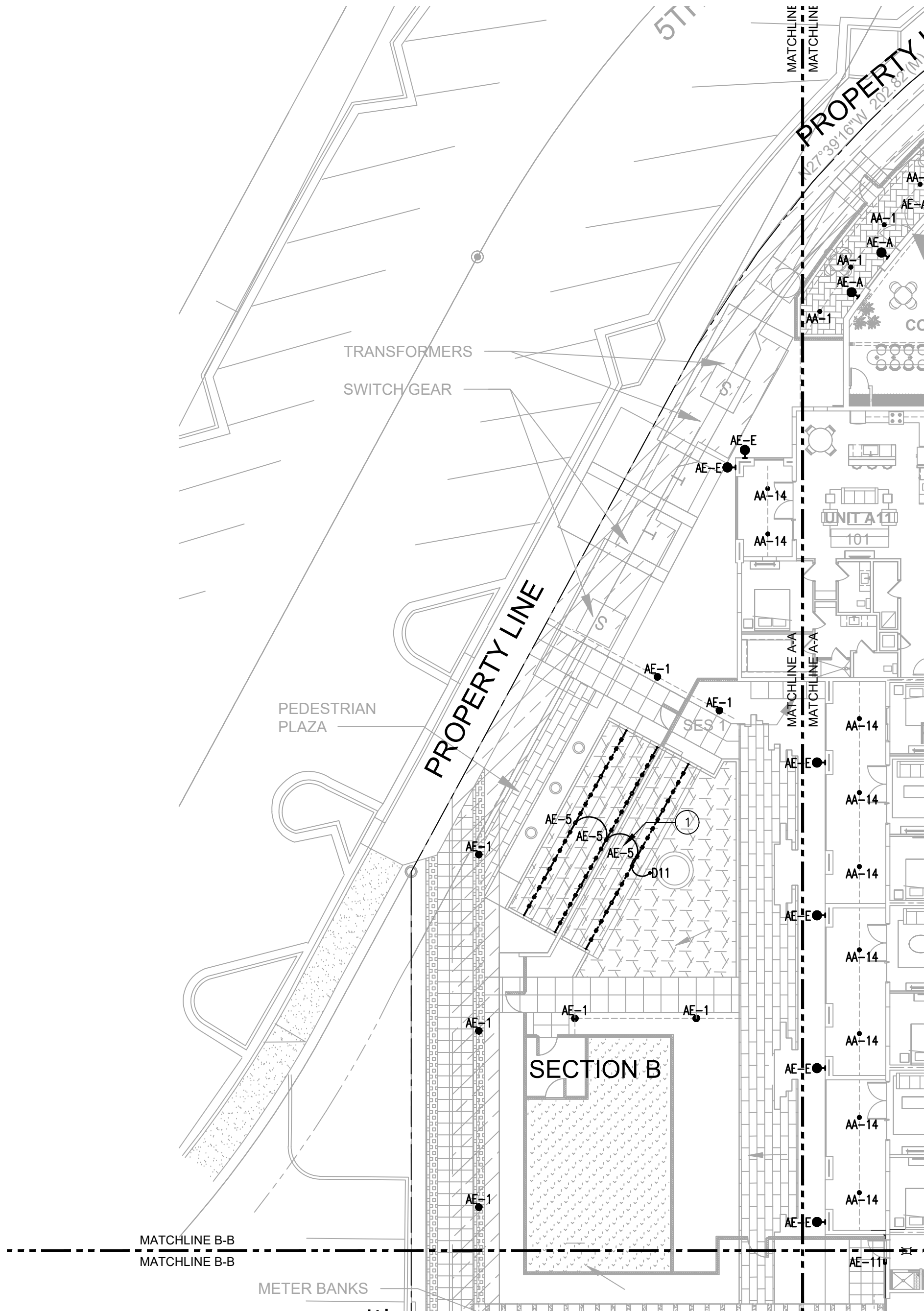
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LT-7.1P
SITE
LIGHTING PLAN

PHOTOMETRIC PLAN - SITE - SECTION A
SCALE: 1/16" = 1'-0"





LIGHTING PLAN - SITE - SECTION B

SCALE: 1/16" = 1'-0"

PHOTOMETRIC STATISTIC SUMMARY NOTES:

LABEL	CALC TYPE	UNIT	AVG	MAX	MIN	AVE/MIN	MAX/MIN
CALCPTS-SITE (HORIZONTAL PLAIN AT 0°)	ILLUMINANCE	FC	1.15	7.5	0	NA	NA
CALCPTS-SITE (VERTICAL PLAIN AT 6°)	ILLUMINANCE	FC	0	0	0	NA	NA

GENERAL NOTES (SITE, LOUNGE & DECK):

- THIS LIGHTING SET COMPLIES THE CITY OF SCOTTSDALE ARIZONA – CODE OF ORDINANCE: APPENDIX B – BASIC ZONING ORDINANCE / ARTICLE VII – GENERAL PREVISIONS / SEC. 7.600 – OUTDOOR LIGHTING
- REFER LIGHTING SPECIFICATION SHEETS FOR LIGHTING SPECIFICATIONS AND LUMINAIRE SCHEDULE FOR FURTHER INFORMATION.

KEY NOTES (SITE, LOUNGE & DECK):

- STRING LIGHT, AE-5. REFER LANDSCAPE SET FOR INSTALLATION.
- DECORATIVE WALL SCONCE. REFER ARCHITECTURAL SET FOR ITS MOUNTING HEIGHT.
- BOLLARD, AE-1. REFER STRUCTURAL SET FOR INSTALLATION.
- RECESSED DOWNLIGHT, AA-1, IS MOUNTED UNDER OVERHANG.
- IN-GROUND LUMINAIRE, AE-2, IS RECESSED IN GROUND (UNDER TREE).
- STEPLIGHT, AE-4, IS RECESSED IN WALL.
- WALL SCONCE. REFER LUMINAIRE SCHEDULE IN LIGHTING SET FOR ITS MOUNTING HEIGHT.
- PUCK LIGHT, AE-14, IS MOUNTED UNDER OVERHANG.
- COLUMN LUMINAIRE, AE-10. REFER STRUCTURAL SET FOR INSTALLATION.
- SURFACE MOUNT LUMINAIRE, AE-6, IS MOUNT ON SHADE STRUCTURE.

DRIVER NOTES (SITE, LOUNGE & DECK):

- D11 DRIVER D11 IS FOR LUMINAIRE AE-5, SUSPENDED STRING LIGHT, ON SHADE STRUCTURE. DRIVER IS LOCATED IN ROOM 158 REFUSE.
- D12 DRIVER D12 IS FOR LUMINAIRE AE-5, SUSPENDED STRING LIGHT, ON POST. DRIVER IS LOCATED IN ROOM 158 REFUSE.
- D13 DRIVER D13 IS FOR LUMINAIRE AE-5, SUSPENDED STRING LIGHT, ON POST. DRIVER IS LOCATED IN ROOM 158 REFUSE.
- D14 DRIVER D14 IS FOR LUMINAIRE AE-5, SUSPENDED STRING LIGHT, ON STRICTURE & POST. DRIVER IS LOCATED IN ROOM 155 SCS.
- D31 DRIVER D31 IS FOR LUMINAIRE AE-5, SUSPENDED STRING LIGHT, ON 3TH LEVEL FIRESIDE LOUNGE. DRIVER IS LOCATED UNDER KITCHEN CABINET.
- D41 DRIVER D41 IS FOR LUMINAIRE AE-5, SUSPENDED STRING LIGHT, ON 4TH LEVEL CANAL LOUNGE. DRIVER IS LOCATED UNDER KITCHEN CABINET.
- D51 DRIVER D51 IS FOR LUMINAIRE AE-5, SUSPENDED STRING LIGHT, ON 5TH LEVEL POOL DECK SHADE STRUCTURE. DRIVER IS LOCATED IN ROOM 554 ELEV RM.

PHOTOMETRIC NOTES:

- THIS LIGHTING SET COMPLIES THE CITY OF SCOTTSDALE ARIZONA – CODE OF ORDINANCE: APPENDIX B – BASIC ZONING ORDINANCE / ARTICLE VII – GENERAL PREVISIONS / SEC. 7.600 – OUTDOOR LIGHTING

PHOTOMETRIC LUMINAIRE SCHEDULE:

QTY	SYMBOL	LABEL	ARRANGEMENT	TOTAL LUMENS	LLF	DESCRIPTION	WATTS	LAMPS	CUT-OFF-CLASS
31	●	AA-1	SINGLE	1,200LM	0.9	RECESSED DOWNLIGHT	11W	1	FULL CUTOFF
39	●	AE-1	SINGLE	1,286LM	0.9	BOLLARD	19.8W	1	FULL CUTOFF
44	●	AE-2	SINGLE	1,920LM	0.9	IN-GROUND LUMINAIRE	11.95W	1	NO: UNDER TREE
6	■	AE-3	SINGLE	989LM	0.9	WALL SCONCE	11W	1	FULL CUTOFF
9	■	AE-4	SINGLE	480LM	0.9	STEPLIGHT	11W	1	FULL CUTOFF
484.5'	---●---	AE-5	SINGLE	40LM/FT	0.9	STRING LIGHT	1.4W/FT	1	FULL CUTOFF
14	●	AE-6	SINGLE	978LM	0.9	CEILING FURFACE	12W	1	FULL CUTOFF
6	→	AE-7	SINGLE	1,227LM	0.9	FLOOD LIGHT	20.4W	1	FULL CUTOFF
5	●	AE-8	SINGLE	1,116LM	0.9	BOLLARD	11W	1	FULL CUTOFF
2	●	AE-9	SINGLE	4,286LM	0.9	BOLLARD	46W	1	FULL CUTOFF
5	●	AE-10	SINGLE	8,572LM	0.9	POLE TOP	92W	1	FULL CUTOFF
13	■	AE-11	SINGLE	1,161LM	0.9	WALL SCONCE	10W	1	FULL CUTOFF
68'	---●---	AE-12	SINGLE	1,116LM/FT	0.9	FACADE LIGHT	6W/FT	1	FULL CUTOFF
12	●	AE-A	SINGLE	558LM	0.9	WALL SCONCE	20W	1	FULL CUTOFF
18	●	AE-B	SINGLE	590LM	0.9	WALL SCONCE	15W	1	FULL CUTOFF
5	●	AE-C	SINGLE	375LM	0.9	WALL SCONCE	8W	1	FULL CUTOFF
7	●	AE-D	SINGLE	279LM	0.9	WALL SCONCE	10W	1	FULL CUTOFF
17	●	AE-E	SINGLE						

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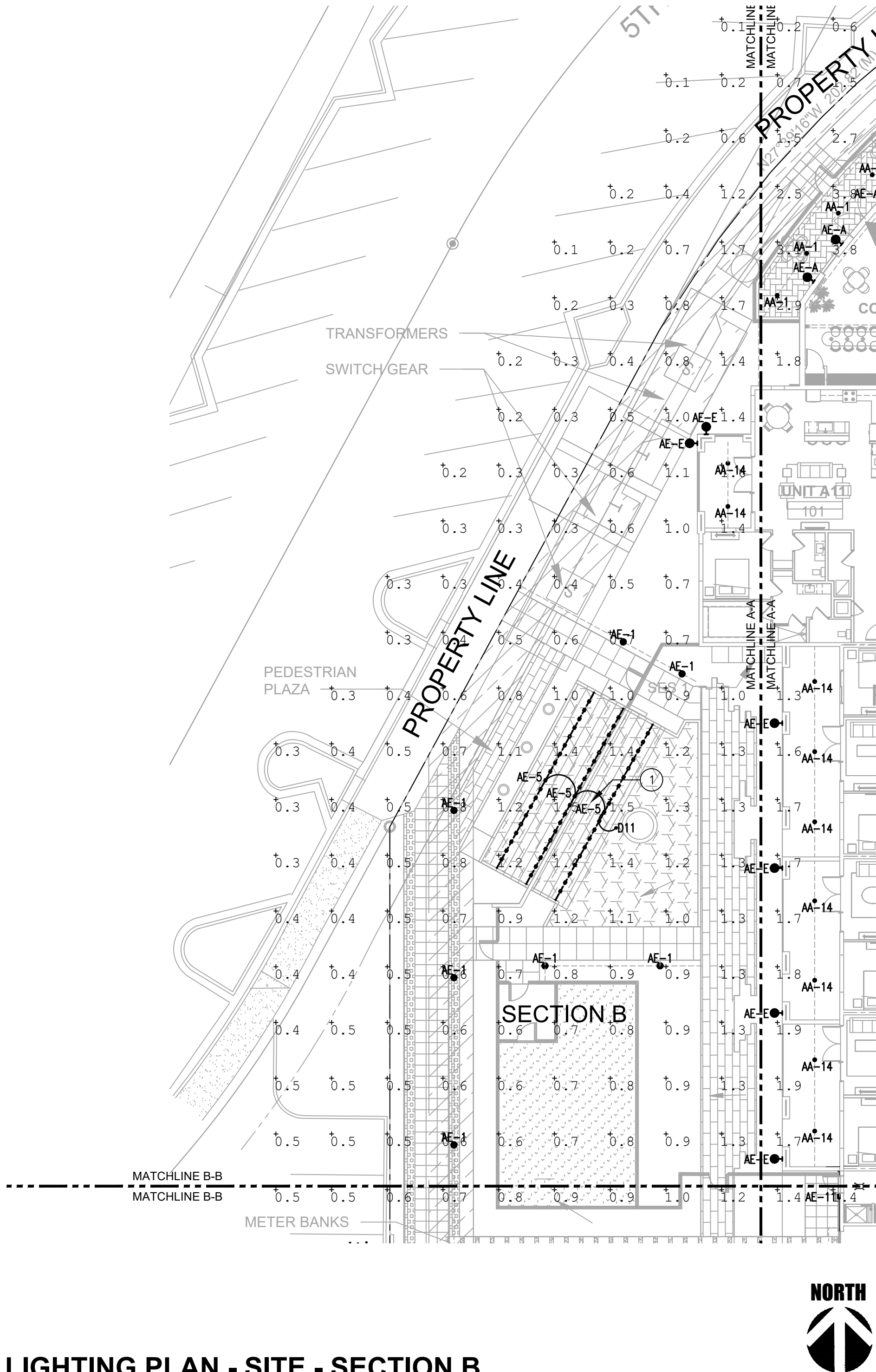
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SITE
LIGHTING PLAN



LIGHTING PLAN - SITE - SECTION B

SCALE: 1/16" = 1'-0"

PHOTOMETRIC STATISTIC SUMMARY NOTES:

LABEL	CALC TYPE	UNIT	AVG	MAX	MIN	AVE/MIN	MAX/MIN
CALCPTS-SITE (HORIZONTAL PLAIN AT 0')	ILLUMINANCE	FC	1.15	7.5	0	NA	NA
CALCPTS-SITE (VERTICAL PLAIN AT 6')	ILLUMINANCE	FC	0	0	0	NA	NA

GENERAL NOTES (SITE, LOUNGE & DECK):

- THIS LIGHTING SET COMPLIES THE CITY OF SCOTTSDALE ARIZONA – CODE OF ORDINANCE:
APPENDIX B – BASIC ZONING ORDINANCE / ARTICLE VII – GENERAL PREVISIONS / SEC. 7.600 – OUTDOOR LIGHTING
- REFER LIGHTING SPECIFICATION SHEETS FOR LIGHTING SPECIFICATIONS AND LUMINAIRE SCHEDULE FOR FURTHER INFORMATION.

KEY NOTES (SITE, LOUNGE & DECK):

- STRING LIGHT, AE-5. REFER LANDSCAPE SET FOR INSTALLATION.
- DECORATIVE WALL SCONCE. REFER ARCHITECTURAL SET FOR ITS MOUNTING HEIGHT.
- BOLLARD, AE-1. REFER STRUCTURAL SET FOR INSTALLATION.
- RECESSED DOWNLIGHT, AA-1, IS MOUNTED UNDER OVERHANG.
- IN-GROUND LUMINAIRE, AE-2, IS RECESSED IN GROUND (UNDER TREE).
- STEPLIGHT, AE-4, IS RECESSED IN WALL.
- WALL SCONCE. REFER LUMINAIRE SCHEDULE IN LIGHTING SET FOR ITS MOUNTING HEIGHT.
- PUCK LIGHT, AE-14, IS MOUNTED UNDER OVERHANG.
- COLUMN LUMINAIRE, AE-10. REFER STRUCTURAL SET FOR INSTALLATION.
- SURFACE MOUNT LUMINAIRE, AE-6, IS MOUNT ON SHADE STRUCTURE.

DRIVER NOTES (SITE, LOUNGE & DECK):

- D11 DRIVER D11 IS FOR LUMINAIRE AE-5, SUSPENDED STRING LIGHT, ON SHADE STRUCTURE. DRIVER IS LOCATED IN ROOM 158 REFUSE.
- D12 DRIVER D12 IS FOR LUMINAIRE AE-5, SUSPENDED STRING LIGHT, ON POST. DRIVER IS LOCATED IN ROOM 158 REFUSE.
- D13 DRIVER D13 IS FOR LUMINAIRE AE-5, SUSPENDED STRING LIGHT, ON POST. DRIVER IS LOCATED IN ROOM 158 REFUSE.
- D14 DRIVER D14 IS FOR LUMINAIRE AE-5, SUSPENDED STRING LIGHT, ON STRICTURE & POST. DRIVER IS LOCATED IN ROOM 155 SCS.
- D31 DRIVER D31 IS FOR LUMINAIRE AE-5, SUSPENDED STRING LIGHT, ON 3TH LEVEL FIRESIDE LOUNGE. DRIVER IS LOCATED UNDER KITCHEN CABINET.
- D41 DRIVER D41 IS FOR LUMINAIRE AE-5, SUSPENDED STRING LIGHT, ON 4TH LEVEL CANAL LOUNGE. DRIVER IS LOCATED UNDER KITCHEN CABINET.
- D51 DRIVER D51 IS FOR LUMINAIRE AE-5, SUSPENDED STRING LIGHT, ON 5TH LEVEL POOL DECK SHADE STRUCTURE. DRIVER IS LOCATED IN ROOM 554 ELEV RM.

PHOTOMETRIC NOTES:

- THIS LIGHTING SET COMPLIES THE CITY OF SCOTTSDALE ARIZONA – CODE OF ORDINANCE:
APPENDIX B – BASIC ZONING ORDINANCE / ARTICLE VII – GENERAL PREVISIONS / SEC. 7.600 – OUTDOOR LIGHTING

PHOTOMETRIC LUMINAIRE SCHEDULE:

QTY	SYMBOL	LABEL	ARRANGEMENT	TOTAL LUMENS	LLF	DESCRIPTION	WATTS	LAMPS	CUT-OFF-CLASS
31	●	AA-1	SINGLE	1,200LM	0.9	RECESSED DOWNLIGHT	11W	1	FULL CUTOFF
39	●	AE-1	SINGLE	1,286LM	0.9	BOLLARD	19.8W	1	FULL CUTOFF
44	●	AE-2	SINGLE	1,920LM	0.9	IN-GROUND LUMINAIRE	11.95W	1	NO: UNDER TREE
6	■	AE-3	SINGLE	989LM	0.9	WALL SCONCE	11W	1	FULL CUTOFF
9	■	AE-4	SINGLE	480LM	0.9	STEPLIGHT	11W	1	FULL CUTOFF
484.5'	---●---	AE-5	SINGLE	40LM/FT	0.9	STRING LIGHT	1.4W/FT	1	FULL CUTOFF
14	●	AE-6	SINGLE	978LM	0.9	CEILING FURFACE	12W	1	FULL CUTOFF
6	→	AE-7	SINGLE	1,227LM	0.9	FLOOD LIGHT	20.4W	1	FULL CUTOFF
5	●	AE-8	SINGLE	1,116LM	0.9	BOLLARD	11W	1	FULL CUTOFF
2	●	AE-9	SINGLE	4,286LM	0.9	BOLLARD	46W	1	FULL CUTOFF
5	●	AE-10	SINGLE	8,572LM	0.9	POLE TOP	92W	1	FULL CUTOFF
13	■	AE-11	SINGLE	1,161LM	0.9	WALL SCONCE	10W	1	FULL CUTOFF
68'	---●---	AE-12	SINGLE	1,116LM/FT	0.9	FACADE LIGHT	6W/FT	1	FULL CUTOFF
12	●	AE-A	SINGLE	558LM	0.9	WALL SCONCE	20W	1	FULL CUTOFF
18	●	AE-B	SINGLE	590LM	0.9	WALL SCONCE	15W	1	FULL CUTOFF
5	●	AE-C	SINGLE	375LM	0.9	WALL SCONCE	8W	1	FULL CUTOFF
7	●	AE-D	SINGLE	279LM	0.9	WALL SCONCE	10W	1	FULL CUTOFF
17	●	AE-E	SINGLE						

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Project No.
23096.00

LT-7.2P

SITE
LIGHTING PLAN



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5TH & GOLDWATER
WOOD PARTNERS
SCOTTSDALE, AZ



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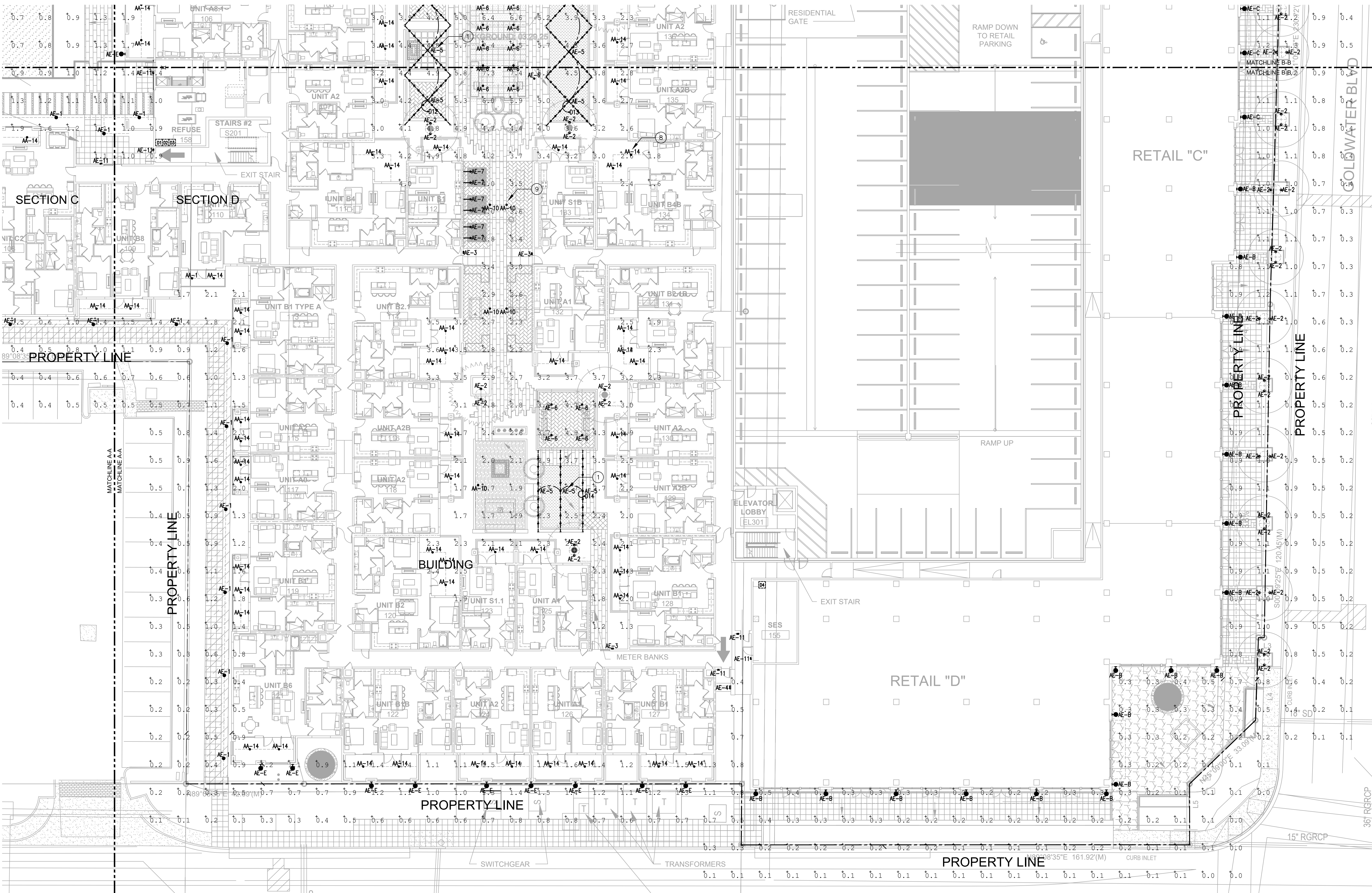
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LT-7.3
SITE
LIGHTING PLAN



LIGHTING PLAN - SITE - SECTION D
SCALE: 1/16" = 1'-0"



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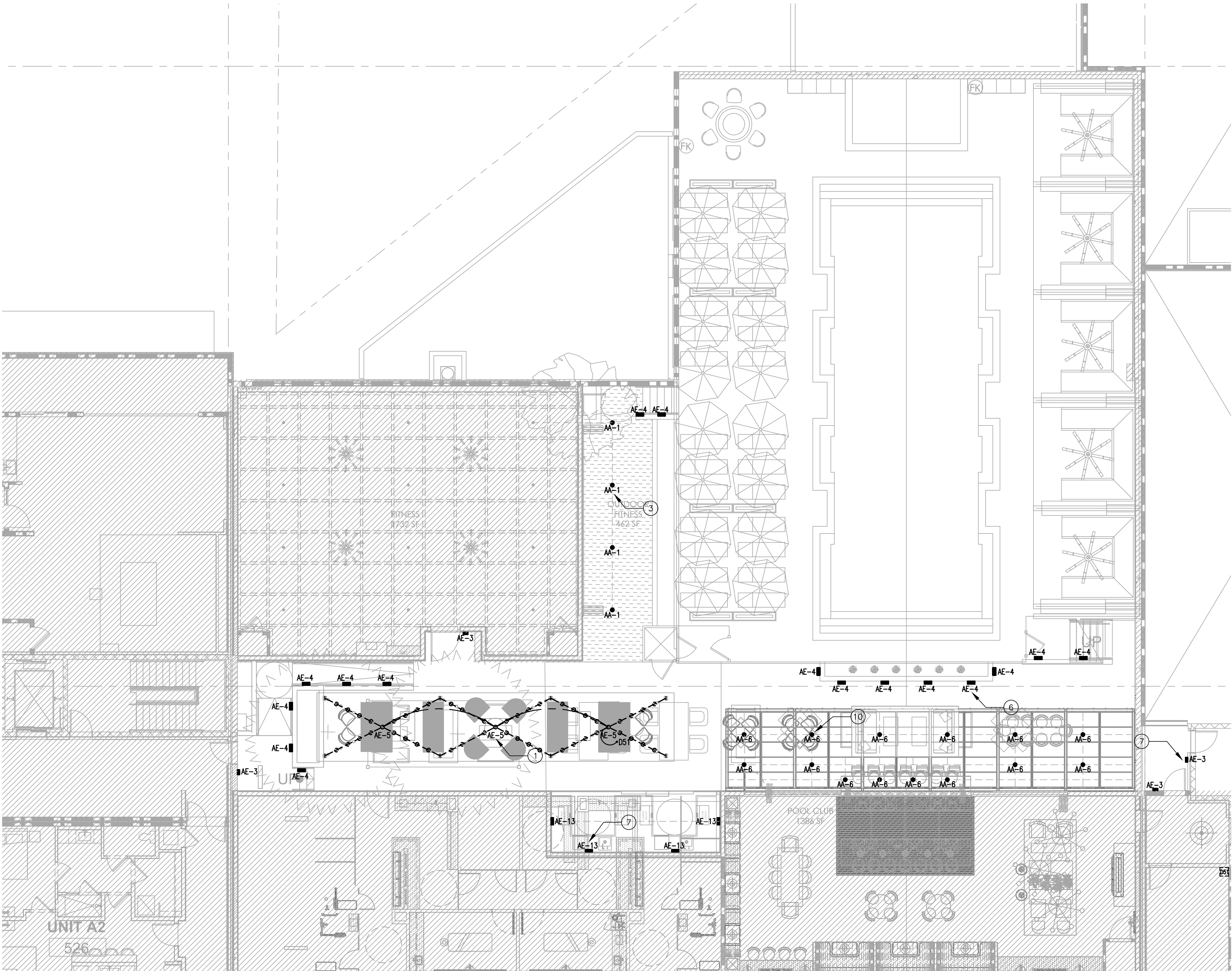
LT-7.3P

SITE
LIGHTING PLAN



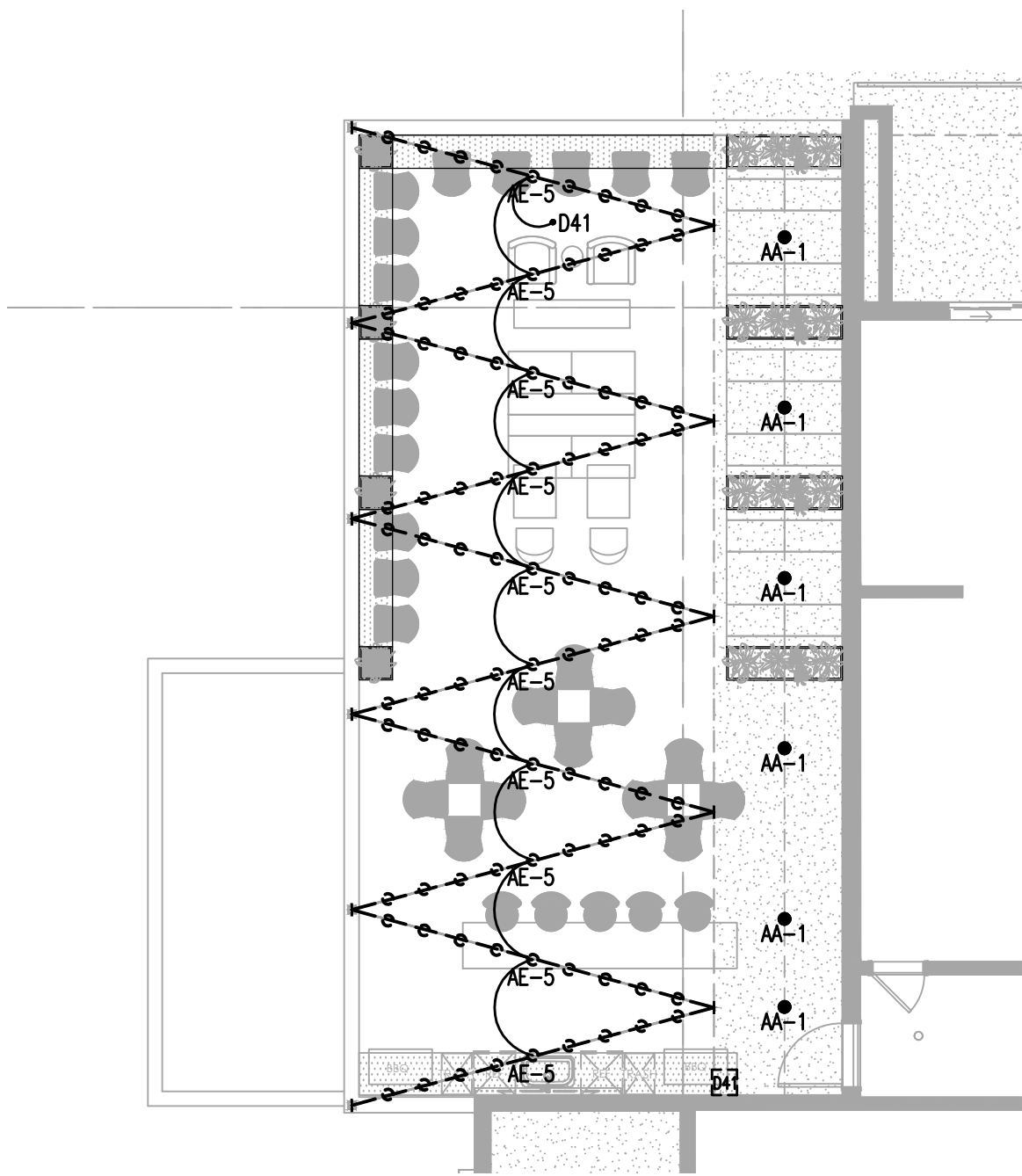
PHOTOMETRIC PLAN - SITE - SECTION D

SCALE: 1/16" = 1'-0"



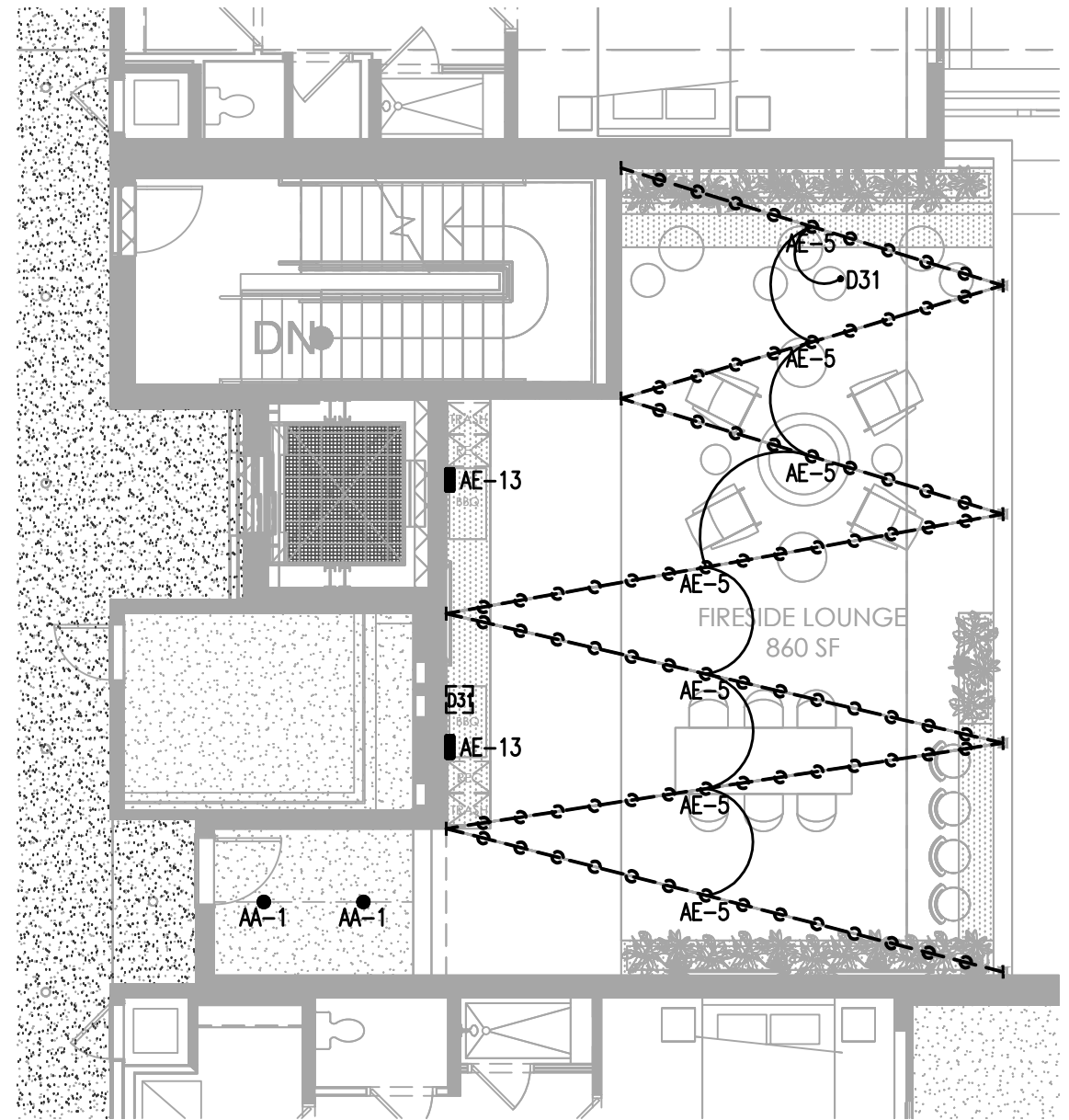
LIGHTING PLAN - 5TH LEVEL POOL DECK

SCALE: 1/8" = 1'-0"



LIGHTING PLAN - 4TH LEVEL CANAL LOUNGE

SCALE: 1/8" = 1'-0"



LIGHTING PLAN - 3RD LEVEL FIRESIDE LOUNGE

SCALE: 1/8" = 1'-0"



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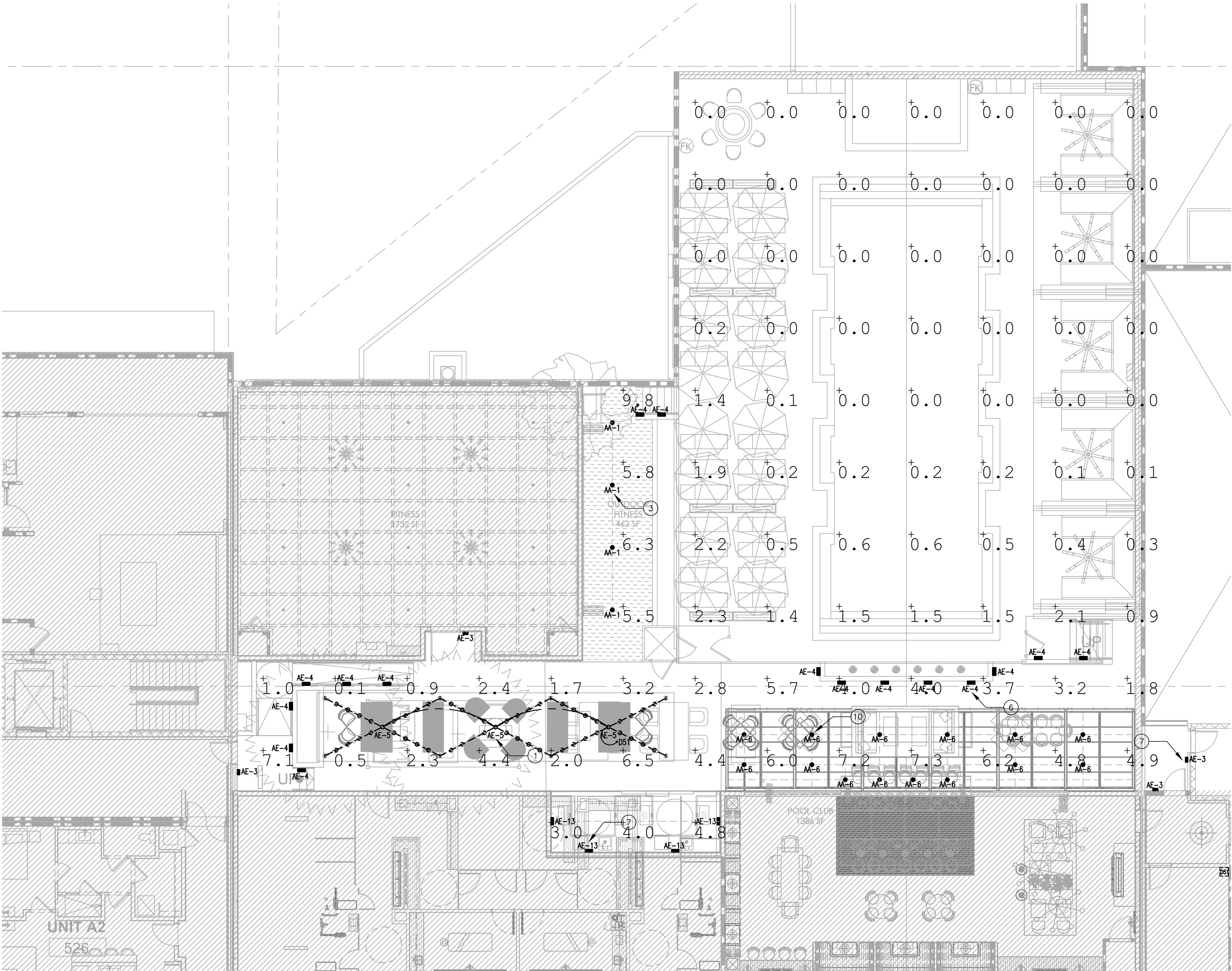
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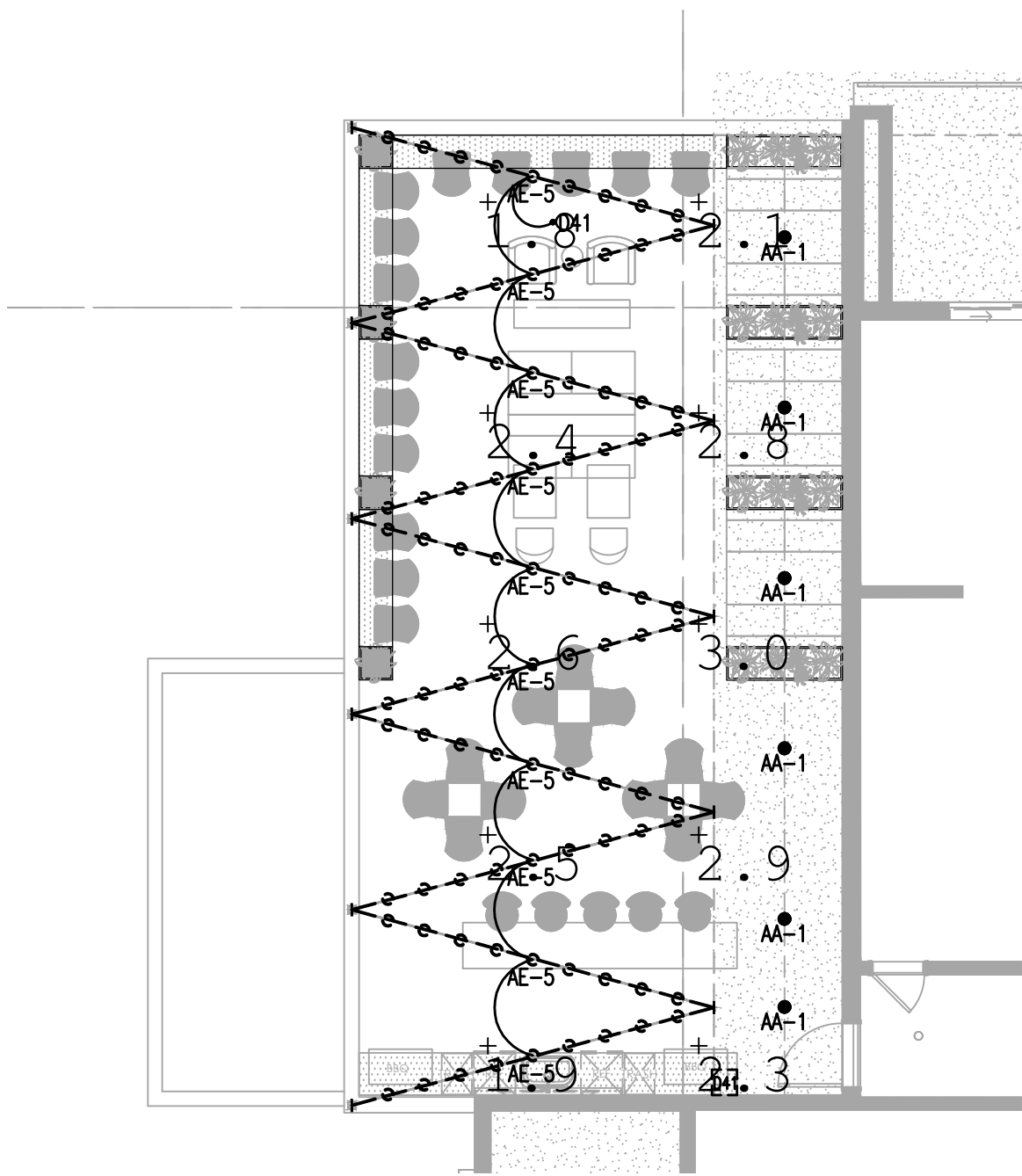
LT-7.4

DECKS
LIGHTING PLAN



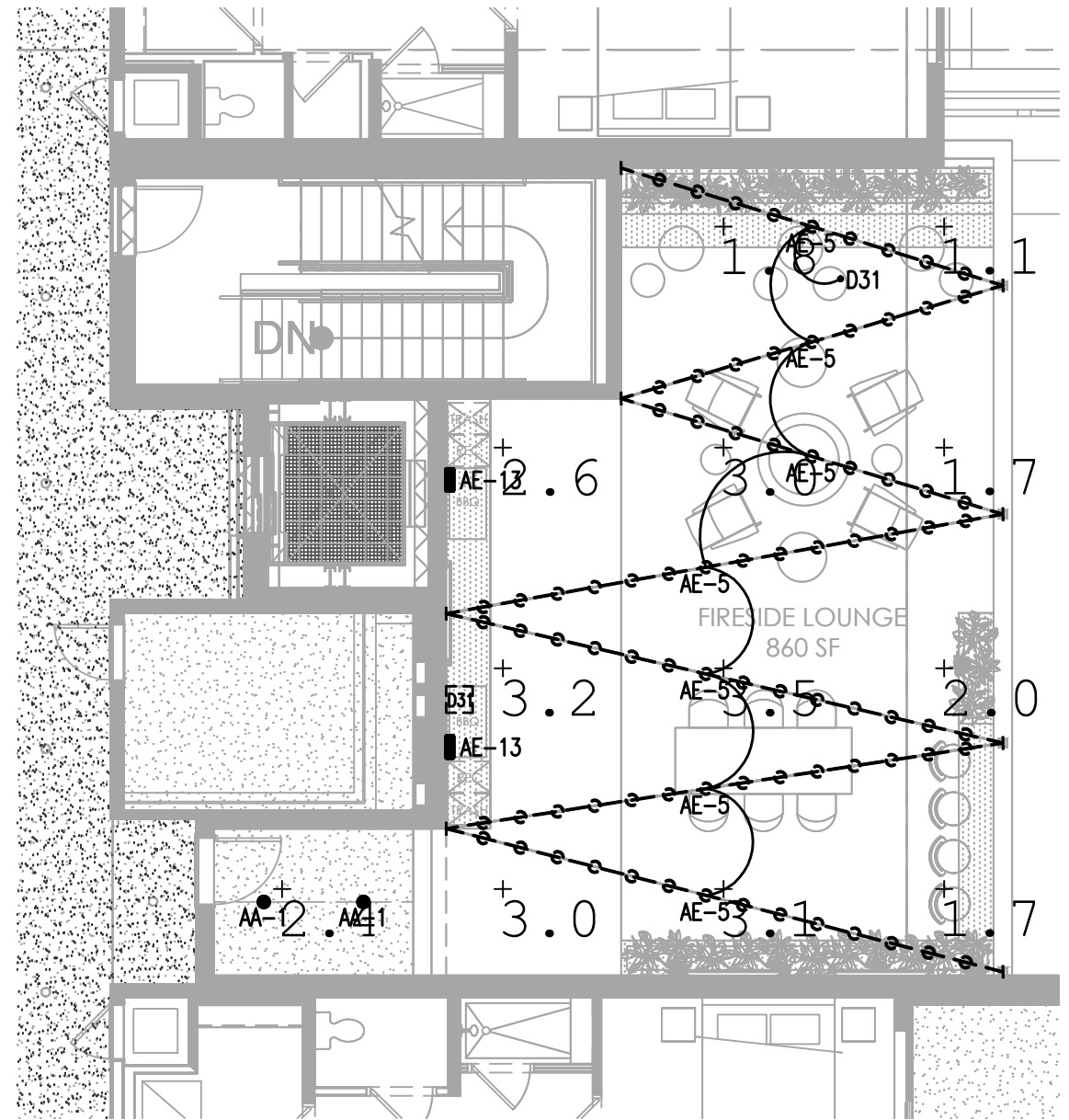
PHOTOMETRIC PLAN - 5TH LEVEL POOL DECK

SCALE: 1/8" = 1'-0"



PHOTOMETRIC PLAN - 4TH LEVEL CANAL LOUNGE

SCALE: 1/8" = 1'-0"



PHOTOMETRIC PLAN - 3RD LEVEL FIRESIDE LOUNGE

SCALE: 1/8" = 1'-0"



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PHOTOMETRIC NOTES:

1. THIS LIGHTING SET COMPLIES THE CITY OF SCOTTSDALE ARIZONA – CODE OF ORDINANCE:
APPENDIX B – BASIC ZONING ORDINANCE / ARTICLE VII – GENERAL PREVISIONS / SEC. 7.600 – OUTDOOR LIGHTING

PHOTOMETRIC LUMINAIRE SCHEDULE:

QTY	SYMBOL	LABEL	ARRANGEMENT	TOTAL LUMENS	LLF	DESCRIPTION	WATTS	LAMPS	CUT-OFF-CLASS
12	●	AA-1	SINGLE	1,200LM	0.9	RECESSED DOWNLIGHT	11W	1	FULL CUTOFF
4	■	AE-3	SINGLE	989LM	0.9	WALL SCONCE	11W	1	FULL CUTOFF
15	■	AE-4	SINGLE	480LM	0.9	STEPLIGHT	11W	1	FULL CUTOFF
484.5'	---●---	AE-5	SINGLE	40LM/FT	0.9	STRING LIGHT	1.4W/FT	1	FULL CUTOFF
14	●	AE-6	SINGLE	978LM	0.9	CEILING FURFACE	12W	1	FULL CUTOFF
6	■	AE-13	SINGLE	1,078LM	0.9	WALL SCONCE	15W	1	FULL CUTOFF

PHOTOMETRIC STATISTIC SUMMARY NOTES:

LABEL	CALC TYPE	UNIT	AVG	MAX	MIN	AVE/MIN	MAX/MIN
CALCPTS-POL DECK (HORIZONTAL PLAIN AT 0')	ILLUMINANCE	FC	1.78	9.8	0	NA	NA
CALCPTS-POL DECK (VERTICAL PLAIN AT 6')	ILLUMINANCE	FC	0	0	0	NA	NA
CALCPTS-CANAL LOUNGE (HORIZONTAL PLAIN AT 0')	ILLUMINANCE	FC	2.43	3	1.8	1.35	1.67
CALCPTS-CANAL LOUNGE (VERTICAL PLAIN AT 6')	ILLUMINANCE	FC	0	0	0	NA	NA
CALCPTS-FIRESIDE LOUNGE (HORIZONTAL PLAIN AT 0')	ILLUMINANCE	FC	2.43	3.5	1.1	2.21	2.18
CALCPTS-FIRESIDE LOUNGE (VERTICAL PLAIN AT 6')	ILLUMINANCE	FC	0	0	0	NA	NA

GENERAL NOTES:

1. THIS LIGHTING SET COMPLIES THE CITY OF SCOTTSDALE ARIZONA – CODE OF ORDINANCE:
APPENDIX B – BASIC ZONING ORDINANCE / ARTICLE VII – GENERAL PREVISIONS / SEC. 7.600 – OUTDOOR LIGHTING
2. REFER LIGHTING SPECIFICATION SHEETS FOR LIGHTING SPECIFICATIONS AND LUMINAIRE SCHEDULE FOR FURTHER INFORMATION.

KEY NOTES:

- ① STRING LIGHT, AE-5. REFER LANDSCAPE SET FOR INSTALLATION.
- ② DECORATIVE WALL SCONCE. REFER ARCHITECTURAL SET FOR ITS MOUNTING HEIGHT.
- ③ BOLLARD, AE-1. REFER STRUCTURAL SET FOR INSTALLATION.
- ④ RECESSED DOWNLIGHT, AA-1, IS MOUNTED UNDER OVERHANG.
- ⑤ IN-GROUND LUMINAIRE, AE-2, IS RECESSED IN GROUND (UNDER TREE).
- ⑥ STEPLIGHT, AE-4, IS RECESSED IN WALL.
- ⑦ WALL SCONCE. REFER LUMINAIRE SCHEDULE IN LIGHTING SET FOR ITS MOUNTING HEIGHT.
- ⑧ PUCK LIGHT, AE-14, IS MOUNTED UNDER OVERHANG.
- ⑨ COLUMN LUMINAIRE, AE-10. REFER STRUCTURAL SET FOR INSTALLATION.
- ⑩ SURFACE MOUNT LUMINAIRE, AE-6, IS MOUNT ON SHADE STRUCTURE.

DRIVER NOTES:

- D11 DRIVER D11 IS FOR LUMINAIRE AE-5, SUSPENDED STRING LIGHT, ON SHADE STRUCTURE. DRIVER IS LOCATED IN ROOM 158 REFUSE.
- D12 DRIVER D12 IS FOR LUMINAIRE AE-5, SUSPENDED STRING LIGHT, ON POST. DRIVER IS LOCATED IN ROOM 158 REFUSE.
- D13 DRIVER D13 IS FOR LUMINAIRE AE-5, SUSPENDED STRING LIGHT, ON POST. DRIVER IS LOCATED IN ROOM 158 REFUSE.
- D14 DRIVER D14 IS FOR LUMINAIRE AE-5, SUSPENDED STRING LIGHT, ON STRICTURE & POST. DRIVER IS LOCATED IN ROOM 155 SCS.
- D31 DRIVER D31 IS FOR LUMINAIRE AE-5, SUSPENDED STRING LIGHT, ON 3TH LEVEL FIRESIDE LOUNGE. DRIVER IS LOCATED UNDER KITCHEN CABINET.
- D41 DRIVER D41 IS FOR LUMINAIRE AE-5, SUSPENDED STRING LIGHT, ON 4TH LEVEL CANAL LOUNGE. DRIVER IS LOCATED UNDER KITCHEN CABINET.
- D51 DRIVER D51 IS FOR LUMINAIRE AE-5, SUSPENDED STRING LIGHT, ON 5TH LEVEL POOL DECK SHADE STRUCTURE. DRIVER IS LOCATED IN ROOM 554 ELEV RM.

5TH & GOLDWATER

WOOD PARTNERS
SCOTTSDALE, AZ



Date
April 10, 2025 - DRB

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23096.00

LT-7.5P

DECKS
LIGHTING PLAN

AE-4

Application
Recessed wall luminaire with asymmetric light distribution that is ideal for the illuminated ground surface, building entrance, stairs and footpaths. Separate installation housing allows for seamless coordination into construction and easy maintenance.

Materials
BEGA Bracket 6, a 3-layer frosting technology for increased corrosion protection.
Composite insulation housing.
Pure anodized aluminum reflector.
NRTL listed to North American Standards, suitable for wet locations.
Protection class IP 65.

Weight: 5 lbs.

Electrical
Operating voltage: 120-277VAC
Minimum start temperature: -20°F
LED module wattage: 17.0W
Controlled by: 0-10V dimmable
Color rendering index: Ra > 90
Luminaire lumens: 2400lm
LED service life: 50,000hrs

LED color temperature
- 4000K (K4)
- 5000K (K5)
- 5700K (K7)

BEGA can supply you with suitable LED replacement modules for up to 20 years after the purchase of LED luminaires - see website for details.

Finish
All BEGA standard finishes are matte, textured powder coat with minimum 3 mil thickness. BEGA Unistrut® finish provides superior fade protection in Black, Bronze, and Silver. BEGA standard White is a super durable polyester powder. Optionally available RAL and custom color finishes provided in either polyester powder or liquid paint.

Available colors
- Black (BLK)
- Bronze (BRZ)
- Silver (SLV)
- RAL

Available options
- CUS Custom finish
- FSC Fusing
- MQU Marine grade undercoat
- RAL finish

Included (available for pre-shipment)
- BEG4003 Installation housing



AE-5

Basic & EAL Series Transformers

Tokistar transformers operate from a 120VAC/60Hz input and are fully dimmable. They are provided in a Nema 3R enclosure. The secondary outputs are protected by circuit breakers. Transformers should be installed in an accessible location where there is free circulation.

Model	Output	W	V	W	W	W
CS-40-24V	1 @ 40 Watt / 24VAC	2.25"	5.75"	2.25"	2	2
CS-46-24V	1 @ 46 Watt / 24VAC	2.5"	5.5"	3.0"	3	3
T24-150	1 @ 150 Watt / 24VAC	3.0"	5.0"	3.0"	3	3
T24-300	1 @ 300 Watt / 24VAC	3.5"	5.5"	4.5"	8	8
T24-400	1 @ 400 Watt / 24VAC	4.5"	10.5"	4.5"	15	15
T24-1200	2 @ 600 Watt / 24VAC	5.0"	11.5"	7.0"	28	28

Consult factory for transformers with input voltages of 230 or 277VAC.

Fixture Lengths

To minimize voltage drop and keep conductors safely within their ratings, do not exceed the maximum lengths shown for each independent fixture.

Socket Spacing	0.45 W LED's	UB & V LED's	Xenon Lamp
6" (150 mm)	250' (76 m)	100' (40 m)	32' (10 m)
12" (300 mm)	360' (108 m)	250' (75 m)	56' (17 m)
18" (450 mm)	420' (128 m)	250' (75 m)	72' (22 m)
24" (600 mm)	500' (152 m)	250' (75 m)	80' (24 m)

Specifications

Exhibitor Series is ETL Wet-Location Listed to UL Standards and marked in accordance with CE Standards.

Polycarbonate Globe with flammability rating UL 94V-2

Light Sources include LEDs and Xenon lamps

Flexible Conductors #12 AWG stranded and plated wire

Two O-Rings on each globe for weatherproof seal

Sockets permanently fastened to cable with sealant

Insulation is flexible PVC with flammability rating UL 84 HB

TOKISTAR LIGHTING | 7

AE-7

Application
Compound rectangular floodlight with mounting canopy and outrigger arm. Designed for illuminated architecture and signage. Pair with a variety of optical accessories.

Materials
Clear safety glass with optical texture.
Marine grade, copper free cast 30% copper content A300.0 aluminum alloy.
High temperature silicone gasket.
304 stainless steel outrigger arm.
Pure anodized aluminum reflector.
NRTL listed to North American Standards, suitable for wet locations.
Protection class IP 65.

Weight: 5.2 lbs.

EPA Effective projection area: 0.5 sq. ft.

Electrical
Operating voltage: 120-277VAC/0-277VAC
Minimum start temperature: -20°F
LED module wattage: 17.0W
Controlled by: 0-10V dimmable
Color rendering index: Ra > 90
Luminaire lumens: 2400lm
LED service life: 50,000hrs

LED color temperature
- 4000K (K4)
- 5000K (K5)
- 5700K (K7)

BEGA can supply you with suitable LED replacement modules for up to 20 years after the purchase of LED luminaires - see website for details.

Finish
All BEGA standard finishes are matte, textured powder coat with minimum 3 mil thickness. BEGA Unistrut® finish provides superior fade protection in Black, Bronze, and Silver. BEGA standard White is a super durable polyester powder. Optionally available RAL and custom color finishes provided in either polyester powder or liquid paint.

Available colors
- Black (BLK)
- Bronze (BRZ)
- Silver (SLV)
- RAL

Available options
- CUS Custom finish
- FSC Fusing
- MQU Marine grade undercoat
- RAL finish

Included (available for pre-shipment)
- BEG4003 Installation housing

Fluorescent - Wide beam

LED

BECA 1000 BEGA Way, Carpinteria, CA 93013 (805)684-0533 info@bega-us.com

Due to the dynamic nature of lighting products and the associated technology, luminaire data on this sheet is subject to change at the discretion of BEGA North America. For the most current technical data, please refer to bega-us.com. Copyright 2022/2019

AE-4

Photometric Filename: 33053.IES

TEST LAB: BEGA
DATE: 8/4/2019
LUMINAIRE: 33.053
LAMP: 4.1W LED

IES Classification
IES Type: Very Short
Longitudinal Classification: N.A. (absolute)
Lumens Per Lamp: 231
Total Lamp Lumens: 231
Downward Total Efficiency: N.A.
Luminaire Efficacy Rating (LER): 6
Ballast Factor: 1.00
Upward Waste Light Ratio: 0.02
Max. Cd (<90 Vert.): 164.8 (9H, 45V)
Max. Cd (<90 Vert.): 164.8 (9H, 45V)
Max. Cd (At 90 Deg. Vert.): 10.4 (4.5N/Lum)
Max. Cd (90 to <90 Deg. Vert.): 61.9 (28.8N/Lum)
Cutoff Classification (depreciated): N.A. (absolute)

Lum. Classification System (LCS)

LCS Zone Lumens %Lamp %Lum
FL (0-30) 6.5 N.A. 2.8
FM (30-60) 117.4 N.A. 50.9
FH (60-90) 52.1 N.A. 22.9
FV (90-180) 10.2 N.A. 4.4
BL (0-30) <0.05 N.A. 0.0
BM (30-60) 0.1 N.A. 0.0
BH (60-90) 0.1 N.A. 0.0
BV (90-180) <0.05 N.A. 0.0
UL (90-180) 2.4 N.A. 1.1
UL (180-360) 2.1 N.A. 0.9
Total 230.9 N.A. 100.0
BUG Rating: 80-01-01

Mounting Height = 1.5 ft. Grid Spacing = 2.5 ft.

In the interest of product improvement, BEGA reserves the right to make technical changes without notice.
BECA 1000 BEGA Way, Carpinteria, CA 93013 (805)684-0533 Fax: (805)686-9474 www.bega-us.com © Copyright BEGA-US 2019

AE-5

Exhibitor Series - 1.4 Watt LEDs

Total Length = (P x (No. Sockets - 1))

1.75" (45 mm) 1.75" (45 mm) 1.75" (45 mm)

3.30" (83 mm) 3.30" (83 mm) 3.30" (83 mm)

1.61" (41 mm)

1.4 Watt LED 24VAC/58.3lm

Part #	LED Code	Color	Lumen
EX-VI-W	WVW	2000K	36 Lm
EX-VI-WW	WWW	3000K	36 Lm
EX-VI-WV	VWV	3000K	44 Lm
EX-VI-LV	LVV	3000K	41 Lm
EX-LB-WV	WBW	2400K	45 Lm
EX-LB-W	WBW	2400K	50 Lm

Virtual Incandescent LED (EX-VI) Not Recommended for use with Frosted Globes

Exhibitor Series Submitted

No.	Part	Material
1	EX-VI-WV, EX-VI-WW, EX-VI-W, EX-VI-LV	Solid State LED
2	EX-LB-WV, EX-LB-W, EX-LB-VV, EX-LB-V	LED
3	Globe	Polycarbonate
4	Socket	PBT
5	#12 AWG Wire	PVC with Plated Copper Conductor
6	End Cap	PVC

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Due to the dynamic nature of lighting products and the associated technology, luminaire data on this sheet is subject to change at the discretion of BEGA North America. For the most current technical data, please refer to bega-us.com. Copyright 2022/2019

AE-7

Photometric Filename: 77552.ies

TEST LAB: L071704006
DATE: 7/21/2017
LUMINAIRE: 77.552
LAMP: 17.9W LED

All results in accordance with IESNA LM-79-08

Characteristics
NEMA Type: 7 H x 6 V
Maximum Candela: 1367
Horizontal Beam Angle (50%): -13 H x V
Vertical Beam Angle (50%): 50.1
Horizontal Field Angle (10%): 134.4
Vertical Field Angle (10%): 108.3
Lumens Per Lamp: N.A. (absolute)
Total Lamp Lumens: 1751
Beam Efficiency: 70.80
Field Lumens: 2386
Field Efficiency: 100-110
Splat Lumens: 100
Total Efficiency: N.A.
Total Luminaire Watts: 1.00
Ballast Factor: 74.78
R9 Value: 74.78

Zonal Lumen Summary

Zone	Lumens
0-10	102.27
10-20	369.31
20-30	505.65
30-40	482.04
40-50	498.49
50-60	244.76
60-70	158.77
70-80	62.42
80-90	16.21
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

Mounting Height = 15 ft. Grid Spacing = 10 ft.

In the interest of product improvement, BEGA reserves the right to make technical changes without notice.
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AE-5

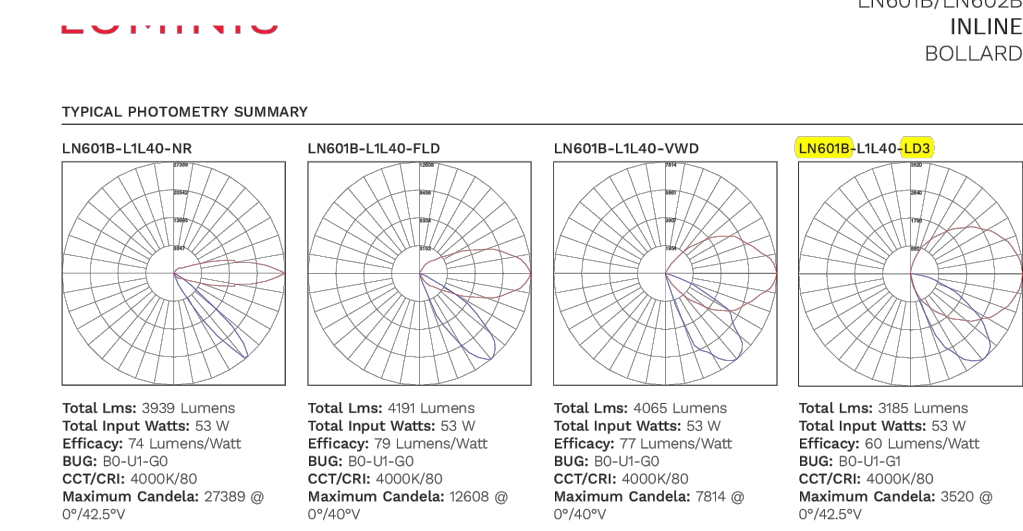
The Basic System

Exhibitor Series sockets are permanently sealed to flexible cable. Shatterproof polycarbonate globes are available in a variety of sizes and colors. Fixtures are wet-location listed and rated IP65.

EXBK - 6 - VIWW - S14 - C

Color	Socket Color	Socket Size	LED	Color	Watts/Volts	Code	Style	Color Code
Black	Black	4" (100 mm)	ULW	2000K White	1.4 W / 24VAC	014	S-14	C
White	White	6" (150 mm)	ULWV	3000K White	1.4 W / 24VAC	014	S-14	F
		8" (200 mm)	ULWV	3000K White	1.4 W / 24VAC	014	S-14	F
		10" (250 mm)	ULWV	3000K White	1.4 W / 24VAC	014	S-14	F
		12" (300 mm)	ULWV	3000K White	1.4 W / 24VAC	014	S-14	F
		14" (350 mm)	ULWV	3000K White	1.4 W / 24VAC	014	S-14	F
		16" (400 mm)	ULWV	3000K White	1.4 W / 24VAC	014	S-14	F
		18" (450 mm)	ULWV	3000K White	1.4 W / 24VAC	014	S-14	F
		20" (500 mm)	ULWV	3000K White	1.4 W / 24VAC	014	S-14	F
		24" (600 mm)	ULWV	3000K White	1.4 W / 24VAC	014	S-14	F
		28" (700 mm)	ULWV	3000K White	1.4 W / 24VAC	014	S-14	F
		32" (800 mm)	ULWV	3000K White	1.4 W / 24VAC	014	S-14	F
		36" (900 mm)	ULWV	3000K White	1.4 W / 24VAC	014	S-14	F
		40" (1000 mm)	ULWV	3000K White	1.4 W / 24VAC	014	S-14	F
		44" (1100 mm)	ULWV	3000K White	1.4 W / 24VAC	014	S-14	F
		48" (1200 mm)	ULWV	3000K White	1.4 W / 24VAC	014	S-14	F
		52" (1300 mm)	ULWV	3000K White	1.4 W / 24VAC	014	S-14	F
		56" (1400 mm)	ULWV	3000K White	1.4 W / 24VAC	014	S-14	F
		60" (1500 mm)	ULWV	3000K White	1.4 W / 24VAC	014	S-14	F
		64" (1600 mm)	ULWV	3000K White	1.4 W / 24VAC	014	S-14	F
		68" (1700 mm)	ULWV	3000K White	1.4 W / 24VAC	014	S-14	F
		72" (1800 mm)	ULWV	3000K White	1.4 W / 24VAC	014	S-14	F
		76" (1900 mm)	ULWV	3000K White	1.4 W / 24VAC	014	S-14	F
		80" (2000 mm)	ULWV	3000K White	1.4 W / 24VAC	014	S-14	F
		84" (2100 mm)	ULWV	3000K White	1.4 W / 24VAC	014	S-14	F
		88" (2200 mm)	ULWV	3000K White	1.4 W / 24VAC	014	S-14	F
		92" (2300 mm)	ULWV	3000K White	1.4 W / 24VAC	014	S-14	F
		96" (2400 mm)	ULWV	3000K White	1.4 W / 24VAC	014	S-14	F
		100" (2500 mm)	ULWV	3000K White	1.4 W / 24VAC	014	S-14	F
		104" (2600 mm)	ULWV	3000K White	1.4 W / 24VAC	014	S-14	F
		108" (2700 mm)	ULWV	3000K White	1.4 W / 24VAC	014	S-14	F
		112" (2800 mm)	ULWV	3000K White	1.4 W / 24VAC	014	S-14	F
		116" (2900 mm)	ULWV	3000K White	1.4 W / 24VAC	014	S-14	F
		120" (3000 mm)	ULWV	3000K White	1.4 W / 24VAC	014	S-14	F
		124" (3100 mm)	ULWV	3000K White	1.4 W / 24VAC	014	S-14	F
		128" (3200 mm)	ULWV	3000K White	1.4 W / 24VAC	014	S-14	F
		132" (3300 mm)	ULWV	3000K White	1.4 W / 24VAC	014	S-14	F
		136" (3400 mm)	ULWV	3000K White	1.4 W / 24VAC	014	S-14	F
		140" (3500 mm)	ULWV	3000K White	1.4 W / 24VAC	014	S-14	F
		144" (3600 mm)	ULWV	3000K White	1.4 W / 24VAC	014	S-14	F
		148" (3700 mm)	ULWV	3000K White	1.4 W / 24VAC	014	S-14	F
		152" (3800 mm)	ULWV	3000K White	1.4 W / 24VAC	014	S-14	F
		156" (3900 mm)	ULWV	3000K White	1.4 W / 24VAC	014	S-14	F
		160" (4000 mm)	ULWV	3000K White	1.4 W / 24VAC	014	S-14	F
		164" (4100 mm)	ULWV	3000K White	1.4 W / 24VAC	014	S-14	F
		168" (4200 mm)	ULWV	3000K White	1.4 W / 24VAC	014	S-14	F
		172" (4300 mm)	ULWV	3000K White	1.4 W / 24VAC	014	S-14	F
		176" (4400 mm)	ULWV	3000K White	1.4 W / 24VAC	014	S-14	F
		180" (4500 mm)	ULWV	3000K White	1.4 W / 24VAC	014	S-14	F
		184" (4600 mm)	ULWV	3000K White	1.4 W / 24VAC	014	S-14	F
		188" (4700 mm)	ULWV	3000K White	1.4 W / 24VAC	014	S-14	F
		192" (4800 mm)	ULWV	3000K White	1.4 W / 24VAC	014	S-14	F
		196" (4900 mm)	ULWV	3000K White	1.4 W / 24VAC	014	S-14	F
		200" (5000 mm)	ULWV	3000K White	1.4 W / 24VAC	014	S-14	F
		204" (5100 mm)	ULWV	3000K White	1.4 W / 24VAC	014	S-14	F
		208" (5200 mm)	ULWV	3000K White	1.4 W / 24VAC	014	S-14	F
		212" (5300 mm)	ULWV	3000K White	1.4 W / 24VAC	014	S-14	F
		216" (5400 mm)	ULWV	3000K White	1.4 W / 24VAC	014	S-14	F
		220" (5500 mm)	ULWV	3000K White	1.4 W / 24VAC	014	S-14	F
		224" (5600 mm)	ULWV	3000K White	1.4 W / 24VAC	014	S-14	F
		228" (5700 mm)	ULWV	3000K White	1.4 W / 24VAC	014	S-14	F
		232" (5800 mm)	ULWV	3000K White	1.4 W / 24VAC	014	S-14	F
		236" (5900 mm)	ULWV	3000K White	1.4 W / 24VAC	014	S-14	F
		240" (6000 mm)	ULWV	3000K White	1.4 W / 24VAC	014	S-14	F
		244" (6100 mm)	ULWV	3000K White	1.4 W / 24VAC	014	S-14	F
		248" (6200 mm)	ULWV	3000K White	1.4 W / 24VAC	014	S-14	F
		252" (6300 mm)	ULWV	3000K White	1.4 W / 24VAC	014	S-14	F
		256" (6400 mm)	ULWV	3000K White	1.4 W / 24VAC	014	S-14	F
		260" (6500 mm)	ULWV	3000K White	1.4 W / 24VAC	014	S-14	F
		264" (6600 mm)	ULWV	3000K White	1.4 W / 24VAC	014	S-14	F
</								

AE-8



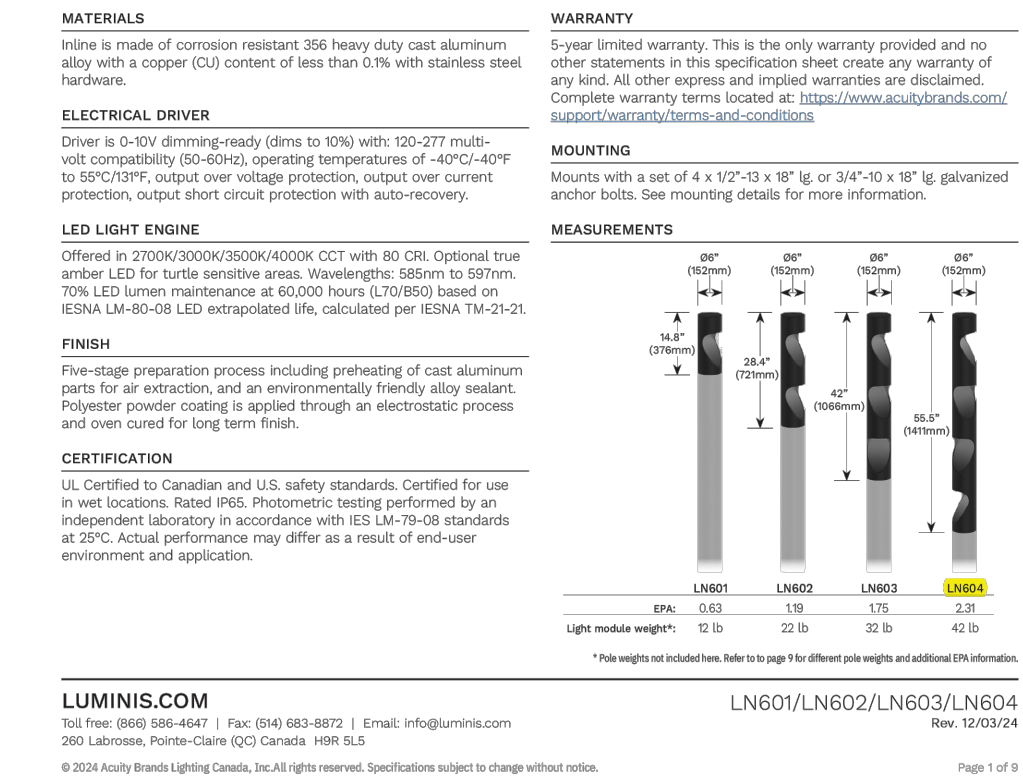
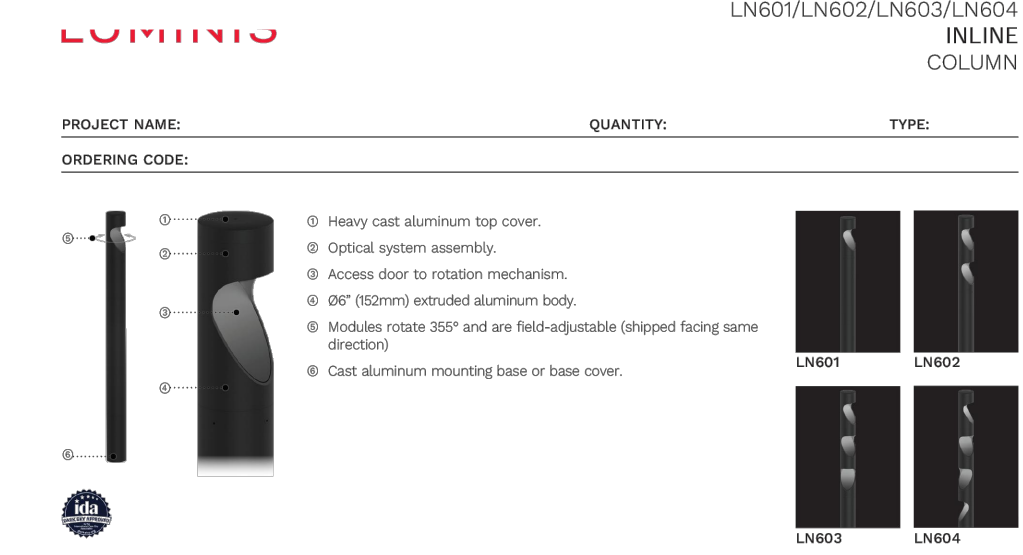
LUMEN CONVERSION FACTOR (LCF)	LM	LM	LM	LUMEN CONVERSION FACTOR (LCF)	LM	LM	LM
2700K	80	0.94	NR	2700K	80	0.94	NR
3000K	80	0.97	FLD	3000K	80	0.97	FLD
3500K	80	0.99	VWD	3500K	80	0.99	VWD
4000K	80	1.00	LD3	4000K	80	1.00	LD3

Aluminis shown with the BEGA 4000 LUX.
Please refer to the BEGA website for complete L.E.S. file.

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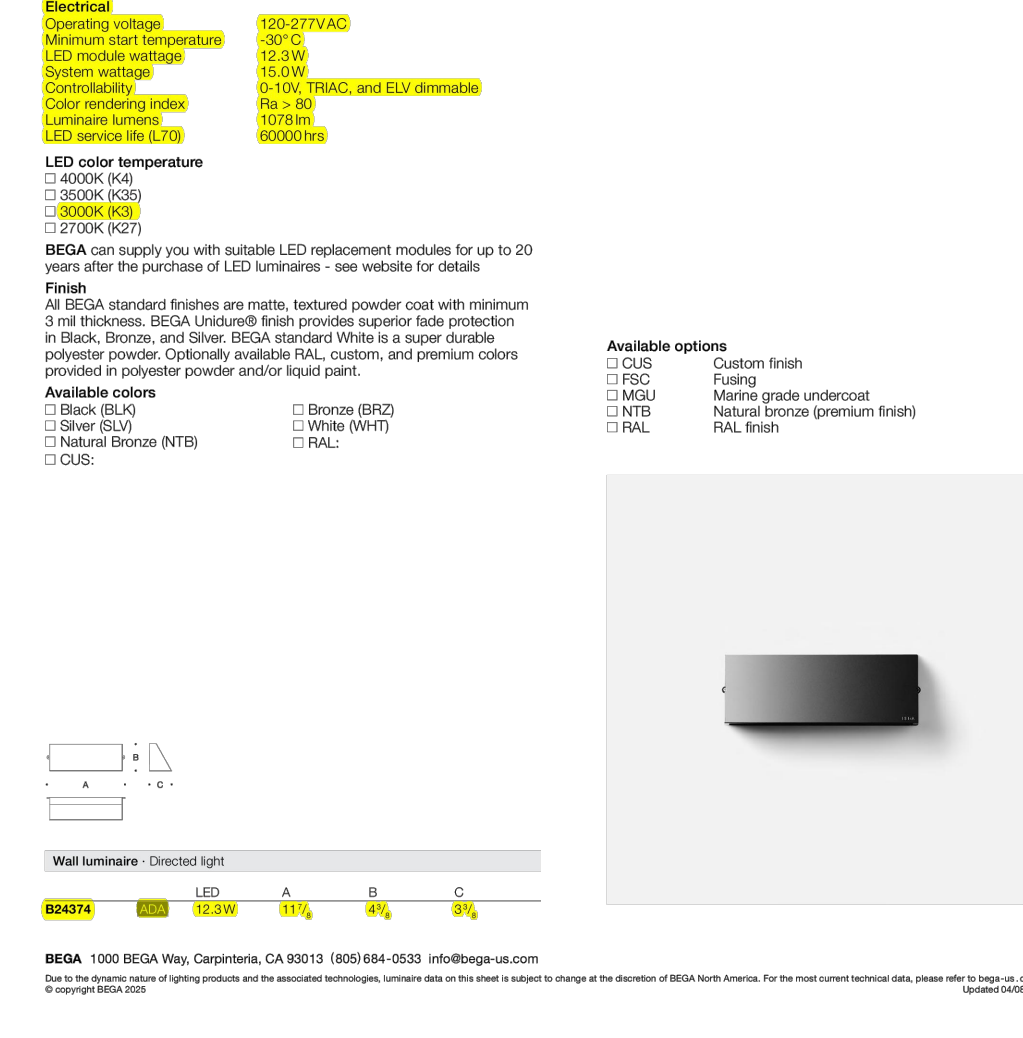
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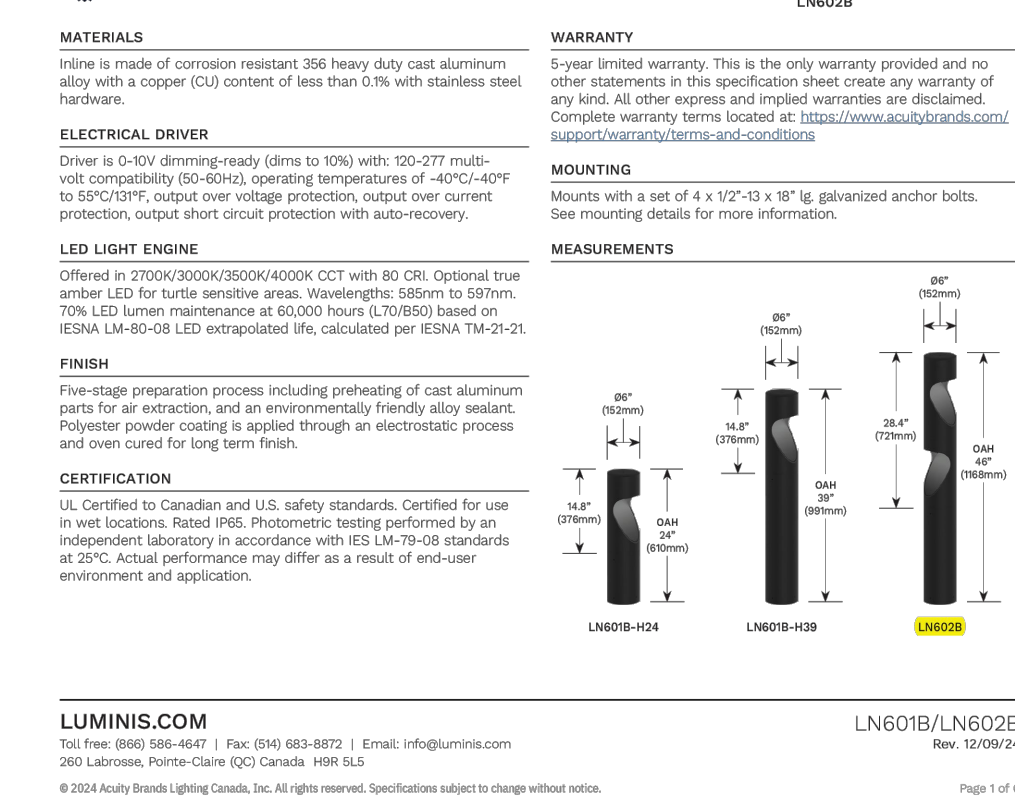
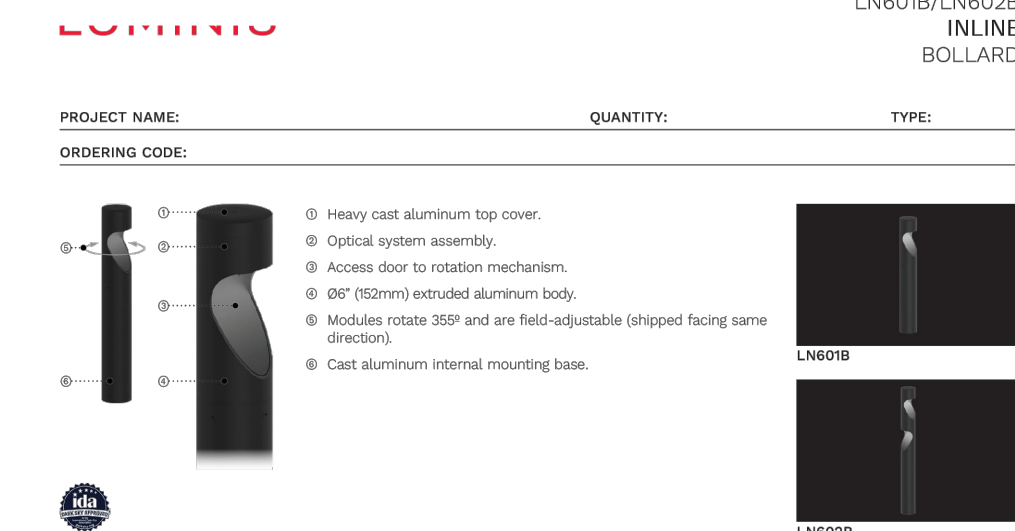
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AE-13



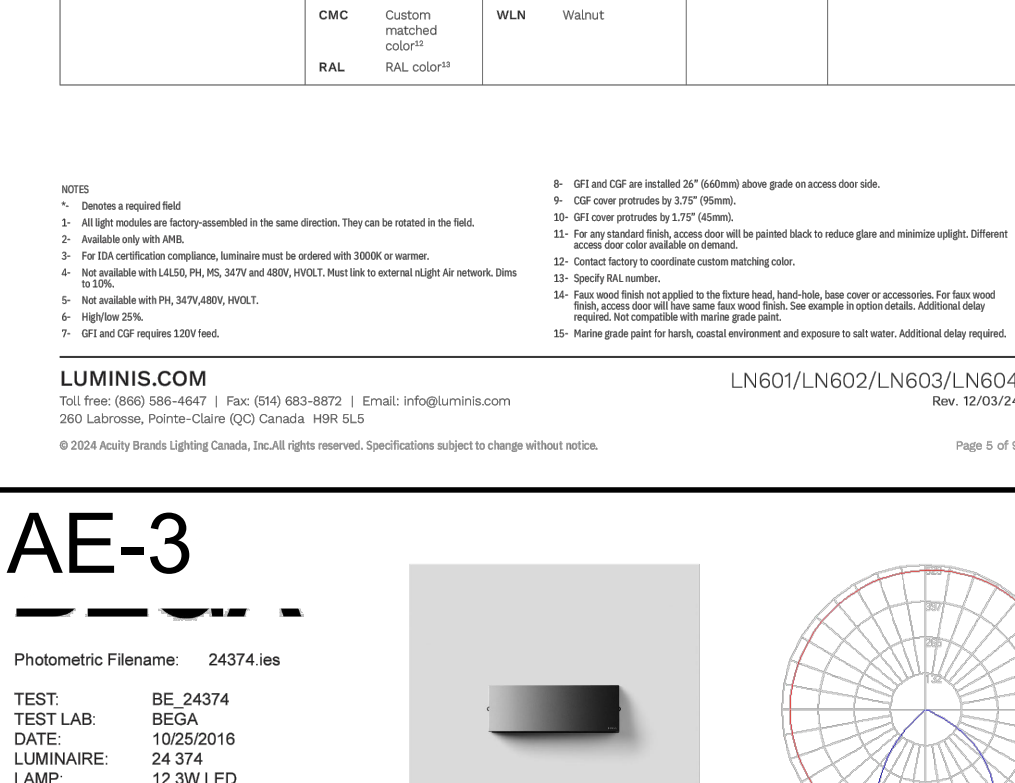
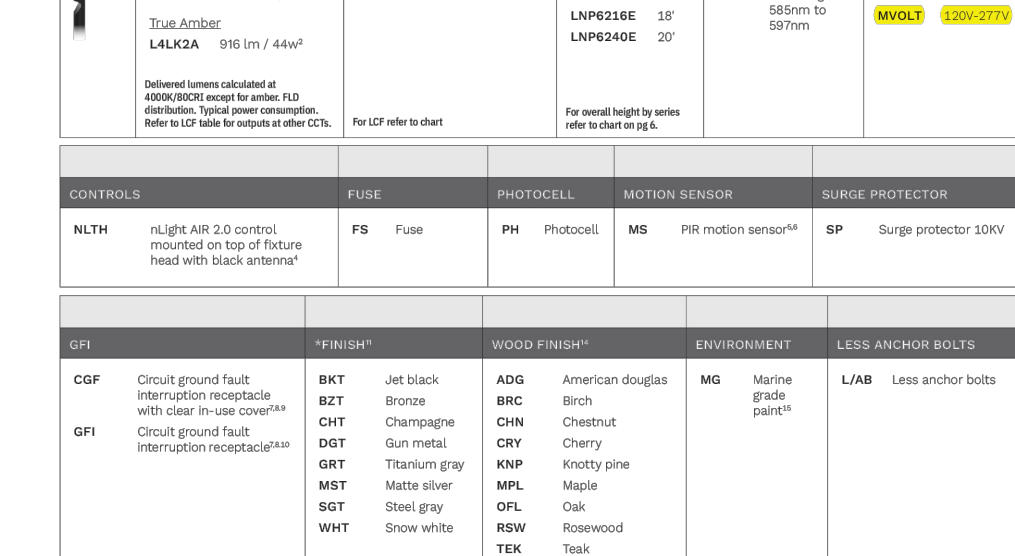
AE-9



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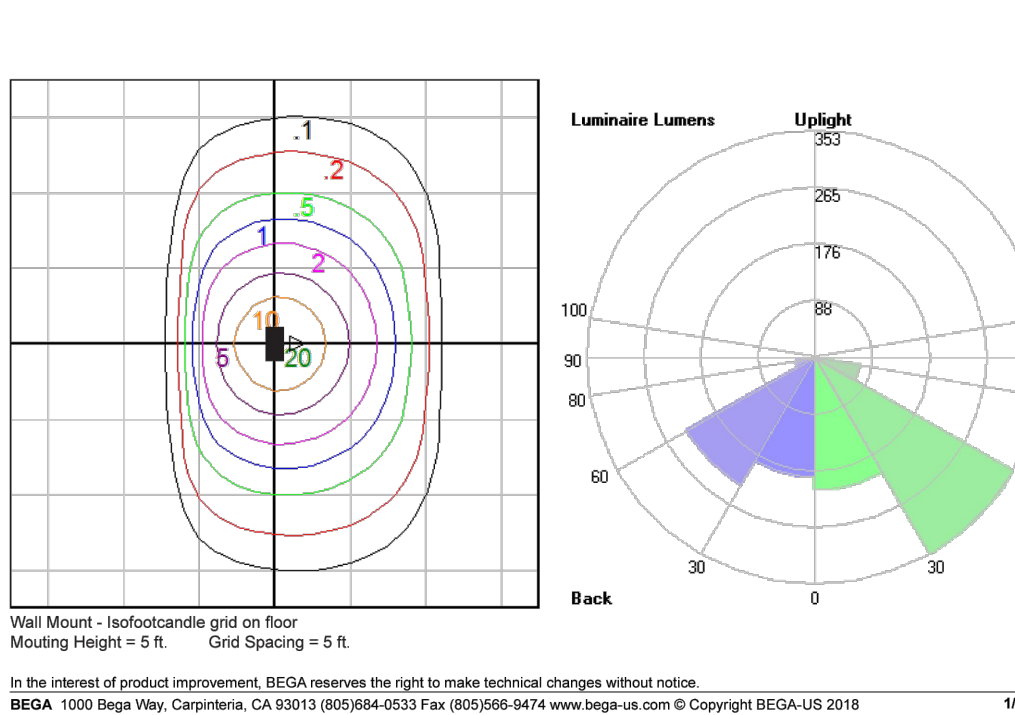
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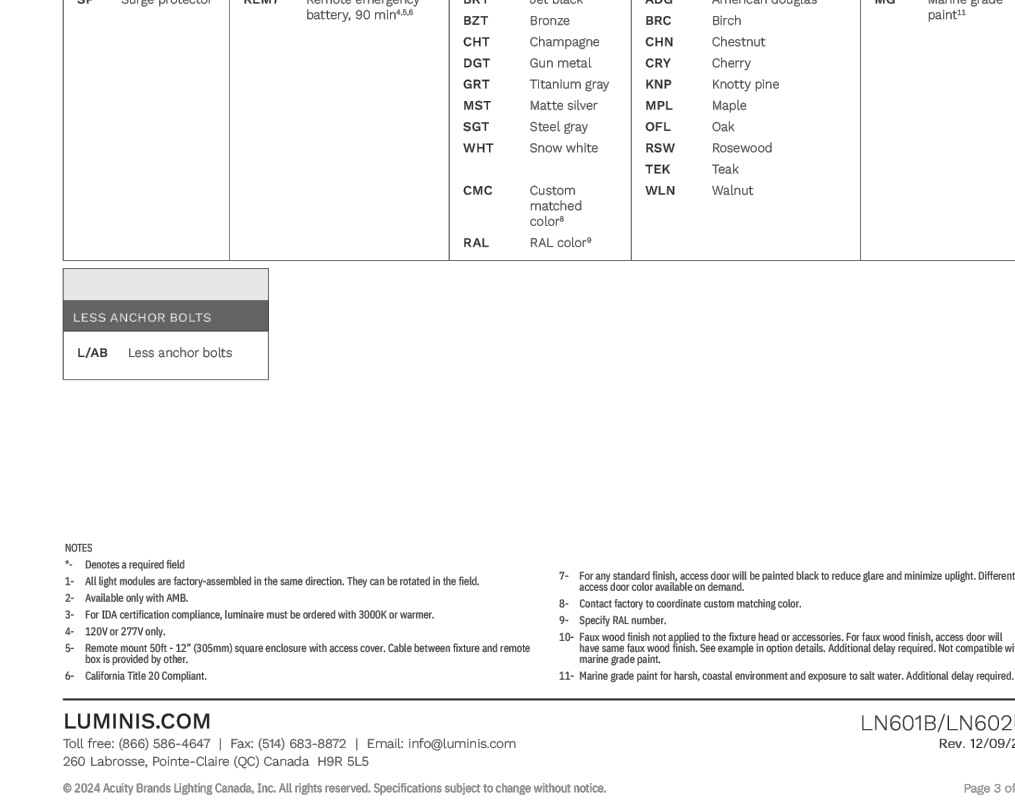
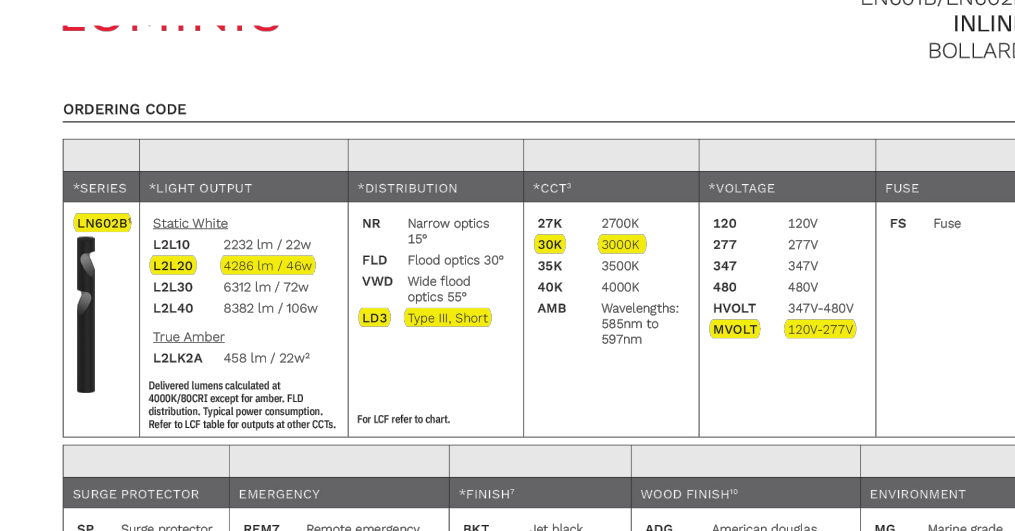
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AE-3



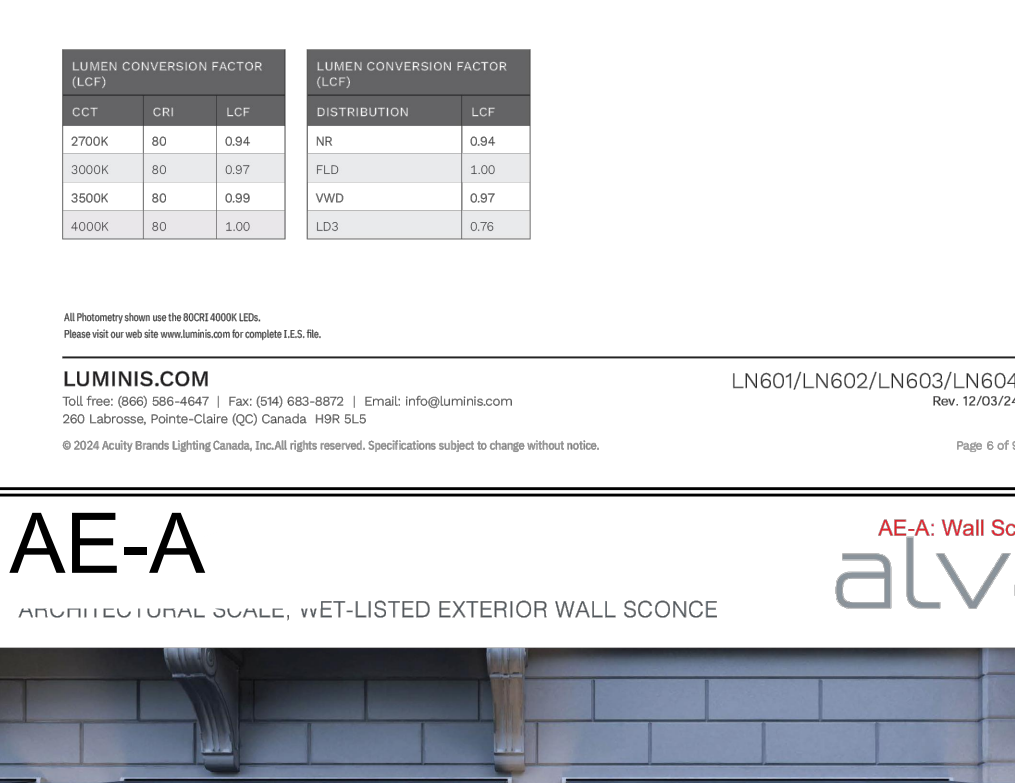
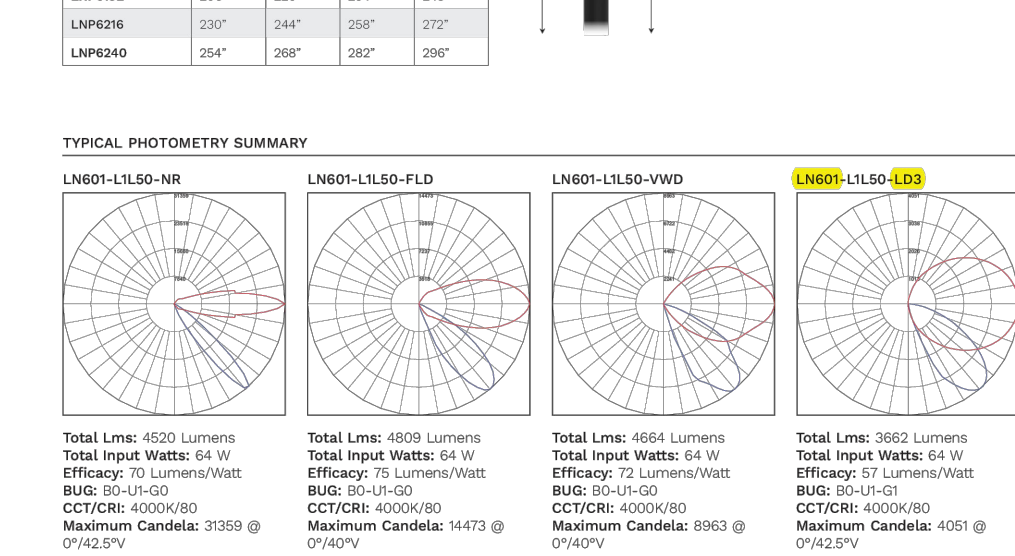
AE-9



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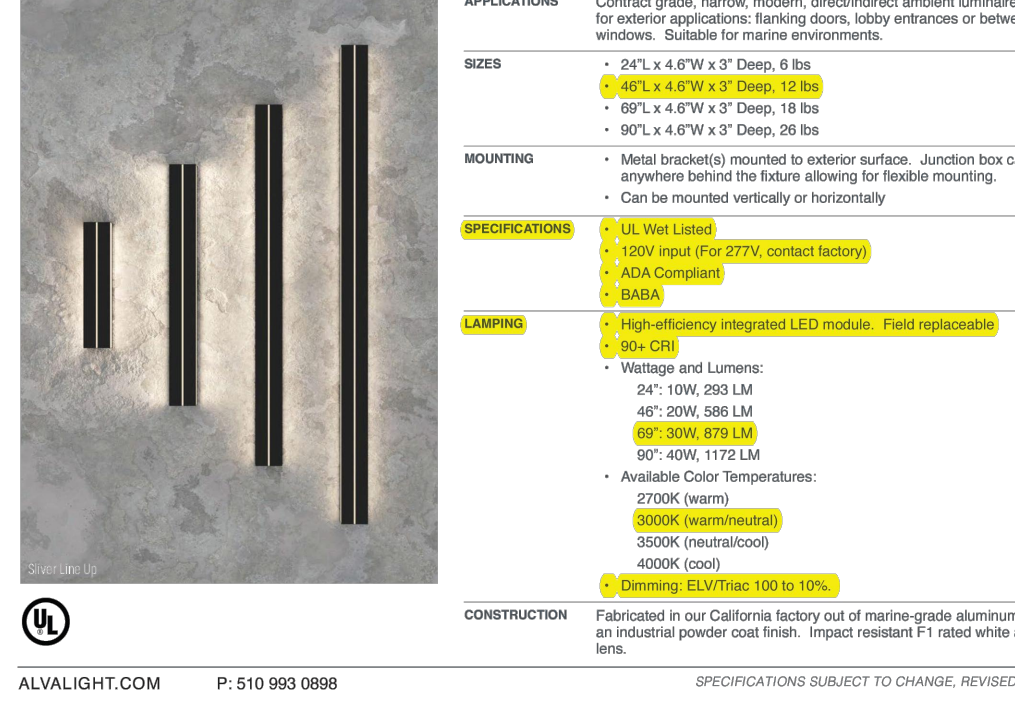
AE-10



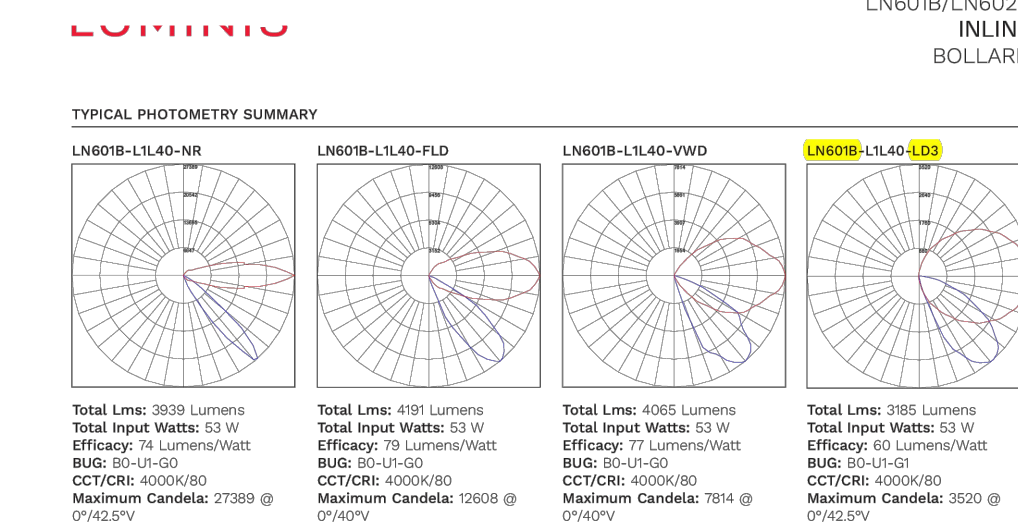
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AE-A



AE-9



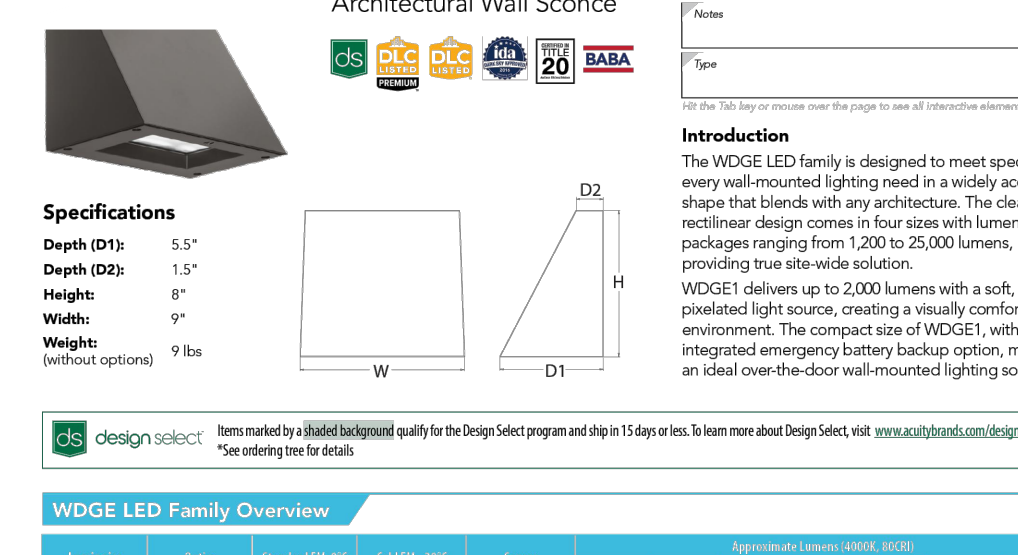
LUMEN CONVERSION FACTOR (LCF)	LM	LM	LM	LUMEN CONVERSION FACTOR (LCF)	LM	LM	LM
2700K	80	0.94	NR	2700K	80	0.94	NR
3000K	80	0.97	FLD	3000K	80	0.97	FLD
3500K	80	0.99	VWD	3500K	80	0.99	VWD
4000K	80	1.00	LD3	4000K	80	1.00	LD3

Aluminis shown with the BEGA 4000 LUX.
Please refer to the BEGA website for complete L.E.S. file.

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Page 1 of 6

AE-11



AE-B

BRZ/FST

PRODUCT INFORMATION

Model: 20032

Parent: 20032LEDMG

Mounting Type: Wall

UPC: 64154222355

Finish: Bronze

Diffuser: Frosted

PRODUCT MEASUREMENTS

Fixture**

Backplate / Canopy**

Length:

Width: 4.5"

Diameter:

Diameter:

Height: 8"

Extension: 5.5"

Overall Height:

TECHNICAL SPECIFICATIONS

Specifications

Frame Material: Aluminum

Diffuser Material: Glass

Lamping Type: SSL (Dedicated LED)

J-box: Standard

Lamping Base: SSL

Lamp Wattage: 15W

Lamp Quantity: 1

Rated Voltage: 120V

Lamps Included: Yes

Qualifications

Location Rating: Wet

UL Listing: ETL (US/Canada) Listed

ADA Compliant: No

Energy Star: No

JAS Compliant: Outdoor Only

Emergency Lighting: No

Warranty: 5 Year

Photometrics

Dimmable: No

Northlight Lumens: 1000 Lm

CR: 90

Delivered Lumens: 550 Lm

CDT: 3000K

Recommended Dimmers:

Additional Notes

Custom Finish 100 Piece Minimum Order Quantity. Optional Color Temperature 100 Piece Minimum Order Quantity.

Signature:

Print Name:

Date:

Toll Free 800-828-5483

www.AccessLighting.com

301 Piedmont Grove Park, Suite A, Greenville, SC 29611

access

lighting

** NOTE: All measurements are rounded up to the 1/4 inch. There is no warranty on any replaceable bulbs, even if included with the fixture. Copyright Access Lighting Corp. All information is subject to change without notice.

10/23/2024

20032LEDMG-BRZ-FST-001

AE-C

AE-C: Linear Wall Sconce

0 EXTERIOR WALL SCONCE

APPLICATIONS

Contrast grade, narrow, modern, direct/indirect ambient luminaires for exterior applications: banking doors, lobby entrances or between windows. Suitable for marine environments.

SIZES

- 64" x 4.5" W x 3" Deep, 5.5 lbs
- 48" x 4.5" W x 3" Deep, 12 lbs
- 36" x 4.5" W x 3" Deep, 18 lbs
- 30" x 4.5" W x 3" Deep, 26 lbs

MOUNTING

- Metal bracket(s) mounted to exterior surface. Junction box can be anywhere behind the fixture allowing for flexible mounting.
- Can be mounted vertically or horizontally.

SPECIFICATIONS

- UL Wet Listed
- 120V Input (For 277V, contact factory)
- ADA Compliant
- BADA

LAMPING

- High-efficiency integrated LED module. Field replaceable
- 80+ CRI
- Wattage: 15W (max) 40' 20W 60' 30W 90' 40W
- Delivered Lumens: 550 (max) 40' 550 LM 60' 550 LM 90' 1110 LM
- Available Color Temperatures: 2700K (warm) 3000K (neutral/warm) 3500K (neutral/cool) 4000K (cool)
- Dimming: DALI/0-10V, 100 to 100%

CONSTRUCTION

Fabricated in our California factory out of marine-grade aluminum with an industrial powder coat finish.

LINE DRAWING

IES FILE

ALVALIGHT.COM

P: 510 993 0898

SPECIFICATIONS SUBJECT TO CHANGE, REVISED 12/2024

AE-C

AE-C: Linear Wall Sconce

0 EXTERIOR WALL SCONCE

APPLICATIONS

Contrast grade, narrow, modern, direct/indirect ambient luminaires for exterior applications: banking doors, lobby entrances or between windows. Suitable for marine environments.

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- 64" x 4.5" W x 3" Deep, 5.5 lbs
- 48" x 4.5" W x 3" Deep, 12 lbs
- 36" x 4.5" W x 3" Deep, 18 lbs
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SPECIFICATIONS

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- 120V Input (For 277V, contact factory)
- ADA Compliant
- BADA

LAMPING

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- 80+ CRI
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- Delivered Lumens: 550 (max) 40' 550 LM 60' 550 LM 90' 1110 LM
- Available Color Temperatures: 2700K (warm) 3000K (neutral/warm) 3500K (neutral/cool) 4000K (cool)
- Dimming: DALI/0-10V, 100 to 100%

CONSTRUCTION

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LINE DRAWING

IES FILE

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SPECIFICATIONS SUBJECT TO CHANGE, REVISED 12/2024

AE-D

AE-D: Linear Wall Sconce

0 EXTERIOR WALL SCONCE

APPLICATIONS

Contrast grade, narrow, modern, direct/indirect ambient luminaires for exterior applications: banking doors, lobby entrances or between windows. Suitable for marine environments.

SIZES

- 64" x 4.5" W x 3" Deep, 5.5 lbs
- 48" x 4.5" W x 3" Deep, 12 lbs
- 36" x 4.5" W x 3" Deep, 18 lbs
- 30" x 4.5" W x 3" Deep, 26 lbs

MOUNTING

- Metal bracket(s) mounted to exterior surface. Junction box can be anywhere behind the fixture allowing for flexible mounting.
- Can be mounted vertically or horizontally.

SPECIFICATIONS

- UL Wet Listed
- 120V Input (For 277V, contact factory)
- ADA Compliant
- BADA

LAMPING

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- 80+ CRI
- Wattage: 15W (max) 40' 20W 60' 30W 90' 40W
- Delivered Lumens: 550 (max) 40' 550 LM 60' 550 LM 90' 1110 LM
- Available Color Temperatures: 2700K (warm) 3000K (neutral/warm) 3500K (neutral/cool) 4000K (cool)
- Dimming: DALI/0-10V, 100 to 100%

CONSTRUCTION

Fabricated in our California factory out of marine-grade aluminum with an industrial powder coat finish.

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AE-D

AE-D: Linear Wall Sconce

0 EXTERIOR WALL SCONCE

APPLICATIONS

Contrast grade, narrow, modern, direct/indirect ambient luminaires for exterior applications: banking doors, lobby entrances or between windows. Suitable for marine environments.

SIZES

- 64" x 4.5" W x 3" Deep, 5.5 lbs
- 48" x 4.5" W x 3" Deep, 12 lbs
- 36" x 4.5" W x 3" Deep, 18 lbs
- 30" x 4.5" W x 3" Deep, 26 lbs

MOUNTING

- Metal bracket(s) mounted to exterior surface. Junction box can be anywhere behind the fixture allowing for flexible mounting.
- Can be mounted vertically or horizontally.

SPECIFICATIONS

- UL Wet Listed
- 120V Input (For 277V, contact factory)
- ADA Compliant
- BADA

LAMPING

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- 80+ CRI
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- Available Color Temperatures: 2700K (warm) 3000K (neutral/warm) 3500K (neutral/cool) 4000K (cool)
- Dimming: DALI/0-10V, 100 to 100%

CONSTRUCTION

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SPECIFICATIONS SUBJECT TO CHANGE, REVISED 12/2024

AE-E

AE-E: Linear Wall Sconce

0 EXTERIOR WALL SCONCE

APPLICATIONS

Contrast grade, narrow, modern, direct/indirect ambient luminaires for exterior applications: banking doors, lobby entrances or between windows. Suitable for marine environments.

SIZES

- 64" x 4.5" W x 3" Deep, 5.5 lbs
- 48" x 4.5" W x 3" Deep, 12 lbs
- 36" x 4.5" W x 3" Deep, 18 lbs
- 30" x 4.5" W x 3" Deep, 26 lbs

MOUNTING

- Metal bracket(s) mounted to exterior surface. Junction box can be anywhere behind the fixture allowing for flexible mounting.
- Can be mounted vertically or horizontally.

SPECIFICATIONS

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- 120V Input (For 277V, contact factory)
- ADA Compliant
- BADA

LAMPING

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- Dimming: DALI/0-10V, 100 to 100%

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NELSEN

PARTNERS

ARCHITECTS & PLANNERS

Nelsen Partners, Inc.

Austin | Scottsdale

15210 North Scottsdale Road

Suite #300

Scottsdale, Arizona 85254

t 480.949.6800

nelsenpartners.com

PRELIMINARY

NOT FOR

CONSTRUCTION

OR

RECORDING

5TH & GOLDWATER

WOOD PARTNERS

SCOTTSDALE, AZ

AKALI

LIGHTING

DESIGN

Date

April 10, 2025 - DRB

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Project No.

23096.00

LT-8.4

LUMINAIRE

CUTSHEET